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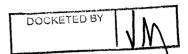
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#### Arizona Corporation Commission DOCKETED

BEFORE THE ARIZONA CORPORATION COMMISSION

CARL J. KUNASEK Chairman JAMES M. IRVIN Commissioner WILLIAM MUNDELL Commissioner



6 IN THE MATTER OF THE APPLICATION OF U S WEST COMMUNICATIONS, INC., A COLORADO CORPORATION, FOR A HEARING TO DETERMINE THE EARNINGS OF THE COMPANY, THE FAIR VALUE OF THE COMPANY FOR RATEMAKING PURPOSES, TO FIX A JUST AND REASONABLE RATE OF RETURN THEREON

AND TO APPROVE RATE SCHEDULES

DESIGNED TO DEVELOP SUCH RETURN.

DOCKET NO. T-01051B-99-0105

NOTICE OF FILING TEST YEAR UPDATE

U S WEST Communications, Inc. ("U S WEST") hereby gives notice of filing the following updated testimony and supporting schedules of George Redding, Ann Koehler-Christensen, Pete Cummings and Dennis Wu. U S WEST is in the process of updating certain other information including (1) the RCND study (2) certain cost studies, (3) and certain information relating to rate design. This information will be provided as soon as it is completed.

20

DATED this 3rd day of May, 2000.

22

23

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25

21

U S WEST COMMUNICATIONS, INC.

Law Department

By

Thomas Dethlefs

1	FENNEMORE CRAIG
2 3 4	Timothy Berg Theresa Dwyer 3003 N. Central Avenue, Suite 2600 Phoenix, Arizona 85012-2913 Attorneys for U S West
5	Communications, Inc.
6	ORIGINAL of the foregoing hand-delivered for filing this 3rd day of May, 2000, to:
8	Docket Control ARIZONA CORPORATION COMMISSION 1200 West Washington Phoenix, Arizona 85007
10 11	COPY of the foregoing hand-delivered this 3rd day of May, 2000, to:
12	Maureen Scott ARIZONA CORPORATION COMMISSION
13	Legal Division 1200 West Washington
14	Phoenix, Arizona 85007
15 16	Deborah Scott Director, Utilities Division ARIZONA CORPORATION COMMISSION 1200 West Washington
17	Phoenix, Arizona 85007
18	Jerry L. Rudibaugh, Chief Hearing Officer Hearing Division
19	Arizona Corporation Commission 1200 W. Washington
20	Phoenix, AZ 85007
21	COPY of the foregoing mailed this 3rd day of May, 2000, to:
22	Scott S. Wakefield, Chief Counsel
23	Residential Utility Consumer Office 2828 N. Central Ave., Suite 1200
24	Phoenix, AZ 85004-1022
25 26	Darren S. Weingard Natalie D. Wales Sprint Communications Company, L.P.

```
1850 Gateway Drive, 7<sup>th</sup> floor
1
   San Mateo, CA 94404-2467
   Steven J. Duffy
3
   Ridge & Isaacson, P.C.
   3101 N. Central Ave., Suite 432
4
   Phoenix, AZ 85012
5
   Raymond S. Heyman
   Randall H. Warner
   Roshka Heyman & DeWulf
   Two Arizona Center
   400 N. Fifth St., Suite 1000
   Phoenix, AZ 85004
8
   Peter Q. Nyce, Jr.
   General Attorney, Regulatory Law Office
   U.S. Army Legal Services Agency
   Department of the Army
11
   901 N. Stuart St., Suite 700
   Arlington, VA 22203-1837
12
   Richard Lee
13
   Snavely, King, Majoros, O'Connor & Lee, Inc.
   1220 L St., N.W., Suite 410
14
   Washington, D.C. 20005
15
   Thomas F. Dixon
   MCI WorldCom
16
   707 17<sup>th</sup> St., Suite 3900
17
   Denver, CO 80202
   Thomas H. Campbell
18
   Lewis & Roca
   40 N. Central Ave.
19
   Phoenix, AZ 85004
20
   Richard S. Wolters
   T&TA
21
   1875 Lawrence St., Suite 1575
   Denver, CO 80202
22
   Mary B. Tribby
23
   AT&T
   1857 Lawrence St., Ste. 1575
24
   Denver, CO 80202
25
   Patricia VanMidde
26
```

```
AT&T
   2800 N. Central, Room 828
2 | Phoenix, AZ 85004
3 Diane Bacon, Legislative Director
   Communications Workers of America
   Arizona State Council
   5818 N. 7<sup>th</sup> St., Suite 206
   Phoenix, AZ 85014-5811
   Thomas H. Campbell
   LEWIS AND ROCA
   40 N. Central Avenue
   Phoenix, Arizona 85004
   Michael W. Patten
   BROWN & BAIN, P.A.
10
   2901 North Central Avenue, Suite 2000
   Phoenix, Arizona 85001-0400
11
   Craig Marks
12
   Citizens Utilities Company
   2901 N. Central Ave., Suite 1660
13
   Phoenix, AZ 85012
14
   Jeffrey Crockett
   Snell & Wilmer
   One Arizona Center
   Phoenix, AZ 85004-0001
16
17.
   J.E. McGillivray
   300 S. McCormick
18
   Prescott, AZ 86303
19
   Jon Poston
   Arizonians for Competition in Telephone Service
20
   6733 East Dale Lane
   Cave Creek, AZ 85331
21
   Albert Sterman
22
   Vice President
   Arizona Consumers Council
23
   2849 E. 8<sup>th</sup> Street
   Tucson, AZ 85716
24
25
   Douglas Hsiao
   Frank Paganelli
26
```

1 2	Rhythms Links, Inc. 6933 Revere Parkway			
	Englewood, CO 80112			
. 3	Jim Scheltema			
4	Blumenfeld & Cohen 1625 Massachusetts Ave., NW, Suite 300			
5	Washington, SC 20036			
6	Martin A. Aronson William D. Cleaveland			
7	Morrill \$ Aronson, PLC			
8	One East Camelback, Suite 340 Phoenix, AZ 85012-1658			
9	Joan S. Burke			
10	Osborn Maledon, P.A. 2929 N. Central Ave., Suite 2100			
11	Phoenix, AZ 85012			
12				
13				
14				
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Arizona Corporation Commission

### DOCKETED BEFORE THE ARIZONA CORPORATION COMMISSION MAY 0 3 2000

	DOCKETED BY
IN THE MATTER OF THE APPLICATION OF US WEST COMMUNICATIONS, INC., A COLORADO CORPORATION, FOR A HEARING TO DETERMINE THE EARNINGS	)
OF THE COMPANY, THE FAIR VALUE OF THE COMPANY FOR RATEMAKING PURPOSES, TO FIX A JUST AND REASONABLE RATE OF	) DOCKET NO. T-1051B-99-105
RETURN THEREON, AND TO APPPROVE RATE SCHEDULES DESIGNED TO DEVELOP SUCH RETURN.	) )

#### SUPPLEMENTAL DIRECT TESTIMONY

OF

**GEORGE REDDING** 

**US WEST COMMUNICATIONS** 

May 3, 2000

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1 2		IDENTIFICATION OF WITNESS
3	Q.	PLEASE STATE YOUR NAME , TITLE, EMPLOYER AND ADDRESS.
4		
5	A.	My name is George Redding. I am employed by U S WEST Communications
6		("U S WEST" or "Company") as Director-Regulatory Finance. My address is
7		1801 California, Denver, Colorado.
8		
9	Q.	ARE YOU THE SAME GEORGE REDDING WHO FILED DIRECT TESTIMONY
0		IN THIS PROCEEDING ON JANUARY 8, 1999?
1		
2	A.	Yes, I am.
3		
4	Q.	WHAT IS THE PURPOSE OF YOUR THIRD SUPPLEMENTAL TESTIMONY?
5		
6	A.	In a hearing on April 4, 2000, the Chief Hearing Officer ordered U S WEST to
7		update its filing to reflect a 1999 test year. This supplemental testimony outlines
8		this update to the test year and discusses several differences between this test
19		year and the original test year, which was the twelve months ending June 30,
20		1998.
21		

ı	Q.	DOES THIS FILING COMPLETELY REPLACE YOUR ORIGINAL FILING
2		DATED JANUARY 8, 1999 AND YOUR FIRST AND SECOND SUPPLEMENTS
3		DATED MARCH AND DECEMBER OF 1999?
4		
5	A.	Not completely. As I stated in my December 1999 supplemental filing, the March
6		1999 supplemental filing was completely replaced by the December 1999
7		supplemental filing. That still holds true.
8		
9		The original January 1999 filing and the December 1999 supplemental filing are
10		still valid as far as discussion of issues is concerned. However, all amounts in
11		those filings and the accompanying exhibits to those filings are completely
12		replaced by this supplemental filing updating the test year.
13		
14	Q.	ARE YOU UPDATING THE R-14 FILING PACKAGE?
15		
16	A.	No, I am not. Due to the extreme time constraint imposed by the requirement to
17		file the update to the test year by May 2, 2000, I have not attempted to update
18		the filing package.
19		
20	Q.	ARE YOU UPDATING THE RCND FILING OR THE RATE OF RETURN
21		ADVOCACY?
22		

A. Both will be updated. Mr. Peter Cummings has provided me with an updated cost of capital and is filing supplemental testimony concurrent with my filing. Ms. Nancy Heller-Hughes will be filing updated RCND testimony and exhibits reflective of the update to the test year and the new depreciation rates and lives approved April 25, 2000. However, this update will require approximately six weeks. It will be filed as soon as possible.

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### Q. YOU MENTIONED NEW DEPRECIATION RATES AND LIVES. ARE THEY REFLECTED IN YOUR UPDATE?

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A. Yes, they are. Mr. Dennis Wu, U S WEST's witness in the depreciation docket, will address the depreciation rates and lives granted in that docket and the impact of those rates and lives when applied to December 31, 1999 plant balances. This amounted to \$99.7M. To this was added approximately \$4.1M related to the change in rates and lives applied to deregulated investment and another \$4.0M related to the change in rates and lives applied to the difference between state and FCC capitalized interest.

18

17

#### Q. WHAT IS THE REVISED ADDITIONAL REVENUE REQUIREMENT?

20

19

21 A. It is \$201.2M based on calendar year 1999.

#### 1 Q. HOW IS YOUR SUPPLEMENTAL TESTIMONY ORGANIZED?

2

A. First I will outline the revised exhibits that accompany this supplemental testimony. Then, I will describe the process necessary to perform the end of period adjustment to the revised test year. Following that, I will describe the other pro forma adjustments made to the test year. Finally, I will describe any differences in adjustments made to the revised 1999 test year as compared to the test year ended June 30, 1998.

9

#### 10 ORGANIZATION OF EXHIBITS

11 12

#### 13 Q. PLEASE OUTLINE THE ORGANIZATION OF YOUR EXHIBITS.

14

#### 15 A. They will be organized as follows:

16 17 18 19 20 21 22 23 24 25	GAR-S1 GAR-S2 GAR-S3 GAR-S4 group GAR-S5 GAR-S6 group GAR-S7 group GAR-S8 GAR-S8	Revenue Requirement Summary Capital Structure Income to Revenue Multiplier Rate Base & Associated Adjustments Income Statement Summary Commission Adjustments & Explanations Pro Forma Adjustments & Explanations Three Year Adjustment & Explanation Automatic Adjustment Mechanism Adjustment & Explanation
26	This follows the sar	ne general organization as used in my January 8, 1999 original

27 exhibit.

**END OF PERIOD ADJUSTMENT** 

Q. PLEASE DESCRIBE THE END OF PERIOD ADJUSTMENT AND THE STEPS

NECESSARY TO PERFORM SUCH AN ADJUSTMENT.

Α.

Certainly. Because of the requirement of a fair value rate base, any revenue requirement filing in Arizona is based on an end of period rate base. In order to maintain a synchronization between the revenues, expenses, taxes and rate base, it is necessary to bring the revenue, expenses and taxes to end of period levels to match the rate base. It is what is commonly known as a volume adjustment.

The end of period adjustment eliminates accounting adjustments per se and all in-period pro forma annualization adjustments. Accounting adjustments are still made, but they are included in the development of the base for the end of period adjustment as I will describe more fully. In-period pro forma annualizations also become part of the end of period adjustment. For example, if a revenue change took place in October, a normal pro forma adjustment would annualize the price level change such that it would look like it had been in effect for the entire test year. With an end of period adjustment this annualization is not necessary as the new level of revenues is already included in the end of period amount used as the basis for the end of period adjustment.

1	Q.	DID YOU INCLUDE AN END OF PERIOD ADJUSTMENT IN YOUR ORIGINAL
2		FILING ON JANUARY 8, 1999?
3		
4	A.	Yes, I did. With some exceptions, that end of period adjustment was done in the
5		same manner as in the Company's last rate case, Docket No. E-1051-93-183.
6		The only major difference between the end of period adjustment I presented on
7		the original test year ended June 30, 1998 and that used in Docket No. E-1051-
8		93-183 is that I annualized the end of the test year for non-wage related
9		expenses as well as for revenues, wage related expenses and taxes which had
10		been done in the prior docket.
11		
12	Q.	HAVE YOU PERFORMED THE SAME ADJUSTMENT TO THE REVISED TEST
13		YEAR?
14		
15	Α.	Yes, I have.
16		
17	Q.	PLEASE DESCRIBE THE PROCESS REQUIRED TO PERFORM AN END OF
18		PERIOD ADJUSTMENT.
19		
20	A.	Following the precedent of Docket No. E-1051-93-183, I annualized revenues,
21		wage related and non-wage related expenses and taxes by multiplying the last
22		month of the test year by twelve. For the updated test year, that month is

Arizona Corporation Commission
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U S WEST Communications
Supplemental Testimony of George Redding
Page 7, May 3, 2000

1 December 1999. In order for this adjustment to be done properly, two steps 2 need to be taken before annualizing the December 1999 results. 3 4 The first step was to analyze December and remove any one time or unusual 5 adjustments that were made in that month. This is very similar to the normal 6 process of accounting adjustments. The difference is that these accounting 7 adjustments are not made as discrete adjustments. Rather, they are used to 8 adjust the starting point that will then be annualized to bring the test year to end 9 of period volumes. For this reason, they are not shown as separate adjustments. 10 11 Once December is normalized, it must then be compared to a trend of 12 operational results. This is done to ensure that the month being annualized is 13 representative of the trends in operational results, both revenues and expenses. 14 In the case of the updated test year, a few items were not in alignment with trend. 15 When this occurs, additional analysis must be undertaken and alternatives to the annualization of December must be used. 16 17 18 CAN YOU GIVE AN EXAMPLE WHERE YOU USED ALTERNATIVE Q. 19 **METHODS?** 20 21 Α. In the case of wage related expenses, the normalized month of December was 22 not in alignment with a trend based on the months of October 1999 through

Arizona Corporation Commission Docket No. T-01051B-99-0105 U S WEST Communications Supplemental Testimony of George Redding Page 8, May 3, 2000

February 2000. One of the items that was out of trend was customer operations 2 wages and salaries. I substituted an amount developed from examining the 3 trend for the normalized December in this case. After making this adjustment, 4 the total of wage related expense to be annualized was in line with trend. The 5 modified December amount was then annualized to obtain the end of period 6 adjustment. 7 8 Q. DID YOU DO THIS WITH ALL LINE ITEMS? 10 Α. An overall reasonableness check as described above was performed for all line items. In many cases, the normalized December amounts were in line with trend 12 and no further analysis was necessary. It was only when the normalized 13 December was not in line with trend that further analysis was done. 14 15 Q. IN THE LAST CASE YOU SET FORTH A NUMBER OF "ADJUSTMENTS NOT 16 MADE" IN CASE SOME PARTIES CHOSE TO CONTEST THE END OF 17 PERIOD ADJUSTMENT. HAVE YOU DONE THE SAME IN THIS UPDATE? 18 19 Α. No, I have not. Time constraints precluded me from making these adjustments. 20 I had only enough time to make the necessary adjustments to present a revenue requirement update using the end of period methodology described above.

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Arizona Corporation Commission
Docket No. T-01051B-99-0105
U S WEST Communications
Supplemental Testimony of George Redding
Page 9, May 3, 2000

1 **COMMISSION & PRO FORMA ADJUSTMENTS** 2 4 Q. WHAT COMMISSION ADJUSTMENTS HAVE YOU MADE? 5 6 A. They are identical in type to those made in the original filing. Non-employee 7 concessions were removed, cash working capital and customer deposits 8 adjustments were made to the rate base. Some amounts of merger costs related 9 to the merger of the three telephone companies are still being amortized and 10 were removed. An interest synchronization adjustment was made. All of these 11 adjustments were in accordance with the Commission's order in Docket No. 12 E-1051-93-183. One Commission adjustment was not made, namely that for 13 Bellcore expenses. This adjustment was not necessary since Bellcore had been 14 sold to an independent third party prior to the beginning of the test year. 15 16 Q. WHAT PRO FORMA ADJUSTMENTS, OTHER THAN THE END OF PERIOD ADJUSTMENT, HAVE YOU MADE IN THE UPDATE? 17 18 19 Α. As mentioned earlier, I have made an adjustment for the new depreciation rates 20 just ordered. I also made adjustments for wage and salary increases that will 21 occur within twelve months of the end of the test year, an adjustment to include 22 Post-Retirement Benefits Other than Pensions (PBOPs) and the inclusion of the

pension asset. I also made a three year adjustment for the Bellcore gain. These

same adjustments were made for the original test year.

23

1	

#### 2 Q. ARE THERE ANY OF THESE ADJUSTMENTS YOU WISH TO DISCUSS

3 FURTHER?

4

Yes. My discussion of the PBOP issue on page 19 of my January 1999 testimony should be reviewed for the rationale for this adjustment. Likewise the discussion beginning at page 15 of my January 1999 testimony addresses the pension asset in some detail.

9

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12

Q. IN YOUR ORIGINAL TESTIMONY YOU DISCUSSED CERTAIN

ADJUSTMENTS YOU DID NOT MAKE, NAMELY DIRECTORY AND

AFFILIATED INTERESTS. DID YOU MAKE ANY ADJUSTMENTS FOR

13 THESE ISSUES IN THIS UPDATE?

14

15 A. No, I did not. I discussed affiliated interests at some length beginning at page 21
16 of my January 1999 testimony. Nothing that I discussed there has changed. Ms.
17 Ann Koehler-Christensen discusses the directory issue in depth in her testimony.
18 Because the modifications necessitated by a change in test year appear
19 throughout her testimony, her supplemental direct testimony completely replaces
20 her direct testimony filed on January 8, 1999.

1 **DIFFERENCES IN ADJUSTMENTS CAUSED BY UPDATE** 2 3 4 Q. WHAT ADJSUTMENTS ARE DIFFERENT FROM THOSE MADE TO THE 5 **ORIGINAL TEST YEAR?** 6 7 A. One that requires some explanation is the three year adjustment made in my 8 original test year for Y2K expenses. I did not make a similar adjustment in this 9 update. When I was developing the original revenue requirement based on the 10 test year ending June 30, 1998, it appeared that Y2K expenses would create an 11 out-of-trend condition for Information Technology expenses. With the benefit of 12 hindsight, this is not the case. Information Technology expenses have and are 13 continuing to grow. The necessity to address the Y2K problem caused other 14 projects to be deferred. Those projects are now being addressed. 15 16 Q. WHAT EVIDENCE TO YOU HAVE THAT INFORMATION TECHNOLOGY 17 **EXPENSES ARE NOT OUT OF TREND?** 18 19 Α., The Arizona information technology expenses for the last several years have 20 been as follows: 21 22 1996 \$ 76.3M 101.5M 23 1997 24 1998 122.8M 25 1999 129.0M 26 2000\* 159.8M 27 \*Annualized based on January through March actual results.

Arizona Corporation Commission Docket No. T-01051B-99-0105 U S WEST Communications Supplemental Testimony of George Redding Page 12, May 3, 2000

2 Furthermore, the Information Technology budget for the Company for 1999 was 3 \$1,192M; it is \$1,375M for 2000. Based on this evidence I have treated all 4 information technology expenses as a normal ongoing item; in other words, the 5 projects may change, but the total level of expense is trending upward. 6 7 Q. ARE THERE OTHER ADJUSTMENTS THAT ARE NOT INCLUDED IN THE 8 **UPDATE THAT WERE IN THE ORIGINAL FILING?** 9 10 Α. There are two additional items, namely amortization of the depreciation reserve 11 deficiency and Local Number Portability (LNP). In a recent decision, the 12 Commission rejected the reserve deficiency amortization; therefore, it is not 13 included in this filing. 14 15 An adjustment for LNP is no longer necessary. At the time of the original filing. 16 LNP revenues were credited entirely to the interstate jurisdiction while expenses 17 and investment associated with LNP were split between the interstate and 18 intrastate jurisdiction. This burdened the intrastate jurisdiction with part of the 19 cost of LNP, but none of the revenues. Therefore, an adjustment was included in

the December 1999 supplement that allocated part of the revenue to the

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intrastate jurisdiction.

Arizona Corporation Commission
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U S WEST Communications
Supplemental Testimony of George Redding
Page 13, May 3, 2000

1 Such an adjustment is no longer necessary. Beginning in late 1999, the 2 revenues, expenses and investment associated with the provision of LNP were 3 removed entirely from the separation process. This means that none of the costs 4 or revenues associated with LNP are included in the intrastate jurisdiction. 5 Therefore no specific adjustment is needed; the amounts are already excluded 6 from the base. 7 8 Q. ARE THERE ANY ADJUSTMENTS THAT ARE DIFFERENT FROM THE 9 **ORIGINAL FILING?** 10 11 A. Yes, the adjustment related to the removal of cable services. In the initial filing 12 the revenues, expenses and investment related to this product were inadvertently 13 included in the Company's January 1999 filing. These items, which were never 14 included in the determination of regulated rates, were removed in the December 15 1999 update, my second supplemental filing. 16 17 During 1999, several things have changed with relation to cable services. First, a 18 separate subsidiary, Broadband Services, Inc. (BSI) was incorporated in 1999 to 19 take over this line of business. All new investment related solely to the provision 20 of cable services has been paid for by and recorded on the books of BSI. U.S. 21 WEST currently has an open docket, Docket No. T-01051B-99-0499, in which it 22 is requesting the transfer of the assets related solely to the provision of cable

Arizona Corporation Commission Docket No. T-01051B-99-0105 U S WEST Communications Supplemental Testimony of George Redding Page 14, May 3, 2000

1 services from U S WEST Communications to BSI. The adjustment I have made 2 in this update excludes these assets that are pending transfer from the rate base. 3 All revenues and expenses related to the provision of cable services have been 4 excluded from the base prior to the end of period adjustment. 5 Q. 6 DO YOU HAVE ANY NEW ADJUSTMENTS? 7 8 Α. I have two. The first relates to the removal of revenues, expenses and 9 investment related to the exchanges in Arizona that the Company is requesting 10 permission to sell in Docket No. T-01051B-99-0737. This adjustment was 11 required in the procedural order relating to the update. 12 13 The second adjustment relates to a new issue, namely that of reciprocal 14 compensation. What the Company is requesting here is an automatic rider that 15 adjusts up and down based on the net payments of reciprocal compensation. 16 What I have included in my adjustment is the annualized value of the first three 17 months of 2000 net expense. No reciprocal compensation is included in the 18 base test year or the end of period adjustment. 19 20 Q. **HOW WOULD SUCH AN AUTOMATIC RIDER WORK?** 

Arizona Corporation Commission Docket No. T-01051B-99-0105 U S WEST Communications Supplemental Testimony of George Redding Page 15, May 3, 2000

. 7	A.	It could work several ways. The one U.S.WEST is suggesting would base each
2		six months or quarter rider on the actual level of payments in the prior six months
3		or quarter. The actuals for each base period would be reported to the
4		Commission and subject to audit at any time.
5		
6	Q.	WHY IS THE COMPANY SUGGESTING A MECHANISM SUCH AS THIS?
7		
8	A.	Right now net reciprocal compensation is growing very rapidly. In the future, as
9		agreements are modified or renegotiated, this level may drop. In other words,
10		the situation is very volatile. An automatic mechanism would ensure that the
11		Company received no more in rates than it is entitled to, whereas inclusion in the
12		base revenue requirement would ensure that the Company would either over or
13		under collect in the future.
14		
15	Q.	DOES THIS CONCLUDE YOUR SUPPLEMENTAL TESTIMONY?
16		
17	Α.	Yes, it does.

#### **BEFORE THE ARIZONA CORPORATION COMMISSION**

IN THE MATTER OF THE APPLICATION OF	,
U S WEST COMMUNICATIONS, INC., A	)
COLORADO CORPORATION, FOR A	)
HEARING TO DETERMINE THE EARNINGS	)
OF THE COMPANY, THE FAIR VALUE OF THE	) DOCKET NO. T-1051B-99-105
COMPANY FOR RATEMAKING PURPOSES,	
TO FIX A JUST AND REASONABLE RATE OF	
RETURN THEREON, AND TO APPPROVE RATE	)
SCHEDULES DESIGNED TO DEVELOP SUCH	
RETURN.	

**EXHIBITS** 

OF

**GEORGE REDDING** 

**US WEST COMMUNICATIONS** 

May 3, 2000

### SUPPLEMENTAL EXHIBITS OF GEORGE REDDING

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Arizona Corporation Commission U S WEST Communications - GAR-S1 Supplemental Exhibits of George Redding May 3, 2000

#### U S WEST Arizona Intrastate Operations Revenue Requirement Summary Test Year Ending December 31, 1999 \$(000)

	Oı	iginal Cost	<u>Fair Value</u>
1. Adjusted Rate Base	\$	1,422,099	
2. Adjusted Net Operating Income		43,822	
<ol> <li>Current Rate of Return (L2/L1)</li> </ol>		3.08%	
4. Required Operating Income (L1*L5)		154,430	
5. Required Rate of Return		10.86%	
6. Operating Income Deficiency		110,608	
7. Gross Revenue Conversion Factor		1.7056	
Increase in Revenue Requirements     (L6*L7)	\$	188,654	
9. BellCore 3 Year Adjustment Revenue Requirement		(686)	
10. Automatic Adj Mechanism Revenue Requirement		13,252	
11. Increase in Gross Revenue Requirements (L8 + L9 + L10)	\$	201,220	

Arizona Corporation Commission U S WEST Communications - GAR-S2 Supplemental Exhibits of George Redding May 3, 2000

## U S WEST Arizona Intrastate Operations Capital Structure Test Year Ending December 31, 1999 \$(000)

	Percent of Total		
	<u>Capital</u>	Cost Rate	Weighted Cost
Total Debt	47.60%	7.39%	3.52%
Common Equity	52.40%	14.00%	7.34%
Total Capital	100.00%		10.86%

## U S WEST Arizona Intrastate Operations Income to Revenue Multiplier Test Year Ending December 31, 1999 \$(000)

1	Gross Intrastate Revenue	100.00%
2	Less: Uncollectible Revenue (Note a)	1.851%
3	Total Revenue (L1-L2)	98.1491%
4	Less: Taxes on Local Revenue Service (Note b)	0.1066%
5	Taxable Income (L3-L4)	98.0425%
6	Less: Effective State Income Tax (L5 * 8.00%)	7.8434%
7	Less: Effective Federal Income Tax (L5 * 32.00%)	31.5697%
8	Net Operating Earnings (L5-L6-L7)	58.6294%
9	Income to Revenue Multiplier (L1 / L8)	1.7056
	Notes: a. Based on Test Year End of Period Adjustment.	

b. Includes Franchise and License taxes and Sales tax assumed.

U S WEST
Arizona Intrastate Operations
Original Cost Rate Base Summary
Test Year Ending December 31, 1999
(\$000)

	[a] Intrastate EOP Rate	[b] Commission	[c] Proforma	[d]=a+b+c Original Cost	[e] Gain On BellCore	[f] Automatic Adjustment	
Original Cost	Base	Adjustments	Adjustments	Rate Base	Sale	Clause	
1 Telephone Plant In Service	\$ 3,699,107	\$ -	\$ (133,092)	\$ 3,566,015	\$ -	\$ -	
2 Short-Term Plant Under Construction	0	0	o .	. 0	0	О	
3 Materials and Supplies	18,386	0	0	18,386	0	0	
4 Allowance for Cash Working Capital	(24,398)	(14,813)	0	(39,211)	0	<b>o</b> ° ,	
5 Accumulated Depr & Amort Reserve	(1,818,488)	0	(104,538)	(1,923,025)	0	0	
6 Accumulated Deferred Income Tax	(309,060)	0	68,525	(240,535)	0	0	
7 Customer Deposits	(5,696)	(2,015)	0	(7,711)	0	0	
8 Land Development Agreement Deposits	(18,040)	0	0	(18,040)	0	0	
9 Other Assets & Liabilities	0	(686)	66,221	65,535	0	0	
10 End-of-Period Rate Base(L1.L9)	\$ 1,541,811	\$ 13,252	\$ (102,883)	\$ 1,421,414	\$ -	\$ -	

NOTE: Fair Value is 50% Original Cost and 50% RCND

## U S WEST Arizona Intrastate Operations End of Period Rate Base - Summary of Rate Base Commission Adjustments Test Year Ending December 31,1999 \$(000)

			[a]	[b]	[c]=a+b
		D	ustomer eposits justment	Cash Working Capital	Summary Commission Adjustments to Rate Base
1	Telephone Plant In Service	\$		\$ -	\$ -
2	Short-Term Plant Under Construction		0	0	0
3	Materials and Supplies		0	0	0
4	Allowance for Cash Working Capital		0	(14,813)	(14,813)
5	Accumulated Depr & Amort Reserve		0	0	0
6	Accumulated Deferred Income Tax		0	0	0
7	Customer Deposits		(2,015)	0	(2,015)
8	Land Development Agreement Deposits		0	0	o
9	Other Assets & Liabilities	· .	0	0	0
10	End-of-Period Rate Base(L1.L9)	\$	(2,015)	\$ (14,813)	\$ (16,828)

U S WEST
Arizona Intrastate Operations
End of Period Rate Base - Summary of Proforma Adjustments included
Test Year Ending December 31, 1999
\$(000)

		[a]	[b]	[c]	[d]	[e]	[f]=sum(a.e)	
		Depreciation	Pension Asset	OPEB Adjustment	Removal of Cable Franchise	Access Line Sale	Summary Proforma Adjustment Included	
1	Telephone Plant In Service	\$	\$ -	\$ 1,478	\$ (10,191)	\$ (124,379)	\$ (133,092)	
2	Short-Term Plant Under Construction	0	0	0	0	0	0	
3	Materials and Supplies	0	0	O	0	0	<b>0</b>	
4	Allowance for Cash Working Capital	0	0	0	0	0	0	
5	Accumulated Depr & Amort Reserve	(107,968)	0	31	3,400	0	(104,538)	
6	Accumulated Deferred Income Tax	43,403	0	4,077	0	21,045	68,525	
7	Customer Deposits	0	0	0.	0	0	0	
8	Land Development Agreement Deposits	. 0	0	0	0	0	0	
9	Other Assets & Liabilities	0	66,221	0	0	0	66,221	
10	End-of-Period Rate Base(L1.L9)	\$ (64,565)	\$ 66,221	\$ 5,585	\$ (6,792)	\$ (103,334)	\$ (102,883)	

# U S WEST Arizona Intrastate Operations Income Statement Summary Test Year Ending December 31, 1999 \$(000)

				[a]		[b]		[c]	ſ	d]=a+b+c		[e]		[f]
			Yea	ar Ending								<u> </u>		
			Dec	ember 31,								BellCore 3		utomatic
				1999		nmission		Proforma	Adj	usted Test		Year		justment
_			<u>In</u>	trastate	Adju	ustments	Ad	ljustments		Year	A	djustment		Clause
Revenue	_			254224		2.242		(00.400)					_	
	-	Local Service Revenues	\$	954,934	\$	2,249	\$	(28,489)	\$	928,693	\$	-	\$	7,932
	_	Network Access Service Revenues		121,079		0		(5,827)		115,252		0		0
		Long Distance Network Service Rev.		30,318		0		(7,905)		22,413		0		0
		Miscellaneous		142,436		0		(10,594)		131,842		0		0
<b>-</b>	5	Total Oper. Rev. (L1 thru L4)	. 1	,248,767		2,249		(52,815)		1,198,201		0		7,932
Expense		Matalanana				•		40.050						
		Maintenance		266,063		0		16,259		282,322		0		0
	7	Engineering Expense		10,710		0		790		11,500		0		0
		Network Operations		41,575		0		10,624		52,199		0		0
	9	Network Administration		2,052		0		285		2,337		0		0
	10	Access Expense		20,801		0		2,770		23,571		0		20,522
	11	Other		472		0		829		1,301		. 0		0
	12	Total Cost of Svcs & Products(L6 thru L11)		341,672		0		6,048		347,720		0		20,522
	13	Customer Operations		190,243		0		29,048		219,291		0		0
	14	Corporate Operations		186,490		0		20,485	,	206,976		0		0
	15	Property & Other Taxes		51,586		3		(3,548)		48,040		. 0		23
	16	Uncollectibles		18,644		42		(2,206)		16,481		. 0		380
	17	Tot Selling, Gen. & Admin.(L13 thru L16)		446,964		45		43,779		490,788		0		403
	18	Other Operating Income & Expense		18		463		(307)		174		(673)		0
	19	Depreciation Expense		239,714		(13)		89,183		328,884		0		0
	20	Universal Service Fund		(1,370)		0		1,370		0		0		0
	21	Link Up America		(88)		0		(686)		(774)	•	0		0
	22	Total Operating Expense(L12+L17 thru L21)	1	1,026,910		495		139,387		1,166,792		(673)		20,924
	23	Income From Operations (L5-L22)		221,857		1,754		13,252		236,863		673		(12,993)
Taxes		•												
	24	Federal Income Tax		55,903		(922)		(62,059)		(7,078)		217		(4,184)
	25	State & Local Income Tax		17,011		(229)		(15,417)		1,365		54		(1,039)
	26	Net Operating Income (L23-L24-L25)	\$	148,943	\$	2,905	\$	90,728	\$	242,576	\$	402	\$	(7,770)
Other														
	27	Nonoperating Income & Expense		19,958		0		0		19,958		0		0
	28	Nonoperating Income Tax		230		0		0		230		. 0		0
	29	Net Operating Earnings (L26-L27-L28)		128,755		2,905		90,728		222,388		402		(7,770)
	30	Interest Expense		45,442		4,616		0		50,058		0		o o
	31	Juris Diff & Nonreg Net Income		0		0		- 0		0		0		0
	32			0		0		0		0		. 0		0
	33	Net Income (L29-L30-L31-L32)	\$	83,313	\$	(1,711)	\$	90,728	\$	172,330	\$	402	\$	(7,770)
		•				•		•		•				

U S WEST
Arizona Intrastate Operations
Commission Adjustments Summary
Test Year Ending December 31, 1999
\$(000)

_				oval of or Costs	Eı	allowance of Non mployee oncession	Customer Deposits Adjustment	Syn	Interest chronization	C	Subtotal ommission djustments
Reven		7 10 1 D	•				•	•			
		Local Service Revenues	\$	-	\$	2,249	\$ -	\$	-	\$	2,249
	2	Network Access Service Revenues		0		0	0		0		0
	3	Long Distance Network Service Rev.		0		0	0		. 0		0
	4	Miscellaneous		0		0	0		0		0
	5	Total Oper. Rev. (L1 thru L4)		0		2,249	0		0		2,249
Expen		34.				•					•
		Maintenance		0		0	0		0		0
	7	Engineering Expense		0		0	0		0		0
	8	Network Operations		0		0	0		0		0
	9	Network Administration		0		0	0		0		0
	10	Access Expense		0		0	0		0		0
	11	Other		0		0	0		0		0
	12	Total Cost of Svcs & Products(L6 thru L11)		0		0	0		0		0
	13	Customer Operations		0		0	0		0		0
	14	Corporate Operations		0		0	0		0		0
	15	Property & Other Taxes		0		3	. 0		0		3
	16	Uncollectibles		0		42	0		0		42
	17	Tot Selling, Gen. & Admin.(L13 thru L16)		0		45	0		0		45
	18	Other Operating Income & Expense		0		0	463		0		463
	19	Depreciation Expense		(13)		0	0		0		(13)
	20	Universal Service Fund		0		0	0		0		0
	21	Link Up America		0		0	0		0		0
	22	Total Operating Expense(L12+L17 thru L21)		(13)		45	463		0		495
T	23	Income From Operations (L5-L22)		13		(686)	(463)		. 0		(1,136)
Taxes	24	Federal Income Tax		0		12.050	(42)		(1.500)		11 (20
	25	State & Local Income Tax		9		13,252 176	(42)		(1,599)		11,620
			\$	2 2	\$	(14,114)	(10)	¢	(397)	e	(229)
Other	20	Net Operating Income (L23-L24-L25)	Φ	2	Ф	(14,114)	\$ (411)	Þ	1,996	\$	(12,527)
Ощег	27	Nonoperating Income & Expense		0		0	0		0		
		Nonoperating Income Tax		0		0	0				0
	28			-		_	_		1.006		(12.527)
	29	Net Operating Earnings (L26-L27-L28) Interest Expense		(16)		(14,114)	(411)		1,996		(12,527)
	30			(16)		0	(333)		4,965		4,616
	31	Juris Diff & Nonreg Net Income		0		. 0	0		0		0
	32		¢	0	¢	-	•	•	(2.060)	•	(17.142)
	33	Net Income (L29-L30-L31-L32)	\$	18	\$	(14,114)	\$ (78)	Þ	(2,969)	<b>3</b>	(17,143)

#### U S WEST

#### Arizona Intrastate Operations Commission Adjustment

#### Removal of 1991 Merger Costs

#### Test Year Ending December 31, 1999

#### \$(000)

Operating Revenues	\$ - 0
Operating Expenses	(13)
Total Operating Income Taxes	11
Net Operating Income	2
Rate Base	0
Revenue Requirement	\$ (3)

In Docket No. (E1051-89-311), the Arizona Corporation Commission disallowed costs associated with the merger of the three operating companies owned by U S WEST (Mountain States Telephone and Telegraph, Pacific Northwest Bell, Northwestern Bell). The merger was effective January 1, 1991 and the costs are still being amortized. This adjustment removes the amortization of merger costs from the test period.

#### **USWEST**

#### Arizona Intrastate Operations Commission Adjustment

#### Disallowance of Non-Employee Concessions

#### Test Year Ending December 31, 1999

#### \$(000)

Operating Revenues	\$ 2,249
Operating Expenses	45
Total Operating Income Taxes	886
Net Operating Income	1,318
Rate Base	0
Revenue Requirement	\$ (2,248)

In Decisions 53849, 54843 & 58927, the Arizona Corporation Commission disallowed non-employee concession for retired employees and other special interest groups (i.e. clergy, etc.). This adjustment removes the non-employee concession from test year results.

#### **USWEST**

#### Arizona Intrastate Operations Commission Adjustment

#### **Customer Deposits Adjustment**

#### Test Year Ending December 31, 1999

#### \$(000)

Operating Revenues	\$ 0
Operating Expenses	463
Total Operating Income Taxes	(52)
Net Operating Income	(411)
Rate Base	(2,015)
Revenue Requirement	\$ 328

In Decisions 53849 and 54843 (Docket Nos. E-1051-83-035 and E-1051-84-100) the Arizona Corporation Commission ordered U S WEST to reflect customer deposits as 100% intrastate and to bring the associated interest into regulated operating results. This adjustment reflects the order at end-of-period test year levels.

#### US WEST

#### Arizona Intrastate Operations Commission Adjustment

#### Cash Working Capital

#### Test Year Ending December 31, 1999

#### \$(000)

Operating Revenues	\$ 0
Operating Expenses	0
Total Operating Income Taxes	0
Net Operating Income	0
Rate Base	(14,813)
Revenue Requirement	\$ (2,744)

In Decision 54843 (Docket No. E-1051-84-100) the Arizona Corporation Commission adopted Staff's recommendation to exclude non-cash items in the lead-lag studies to determine the amount of cash working capital. This adjustment removes the non-cash items from the rate base.

Arizona Corporation Commission U S WEST Communications - GAR-S6E Supplemental Exhibits of George Redding May 3, 2000

#### **USWEST**

#### Arizona Intrastate Operations Commission Adjustment

#### Interest Synchronization

#### Test Year Ending December 31, 1999

#### \$(000)

Operating Revenues	\$	0
Operating Expenses		0
Total Operating Income Taxes		(1,996)
Net Operating Income		1,996
Rate Base	•	0
Revenue Requirement	\$	(3,405)

In Decisions 54843, 53849 and 58927 (Docket Nos. E-1051-84-100, E-1051-83-035 and E-1051-93-183), the Arizona Corporation Commission ordered synchronization of interest expense. This adjustment synchronizes interest expense to the adjusted rate base for the test year.

U S WEST
Arizona Intrastate Operations
Proforma Adjustments Summary
Test Year Ending December 31, 1999
\$(000)

			[a]		[b]		[c]		[d]		[e]		[f]		[g]		sum(a.g)
		F., .	l . CD					ъ.			ODED		emove				ummary
			of Period		Wage	_			nsion		OPEB		able	Ac	cess Line	Ρ	roforma
		Ann	ualization	Ad	ustment	De	epreciation	Α:	sset	Adj	justment	Fra	nchise		Sale		Adj's
	Revenues																
1	Local Service Revenues	\$	12,444	\$	-	\$	-	\$	-	\$	-	\$	-	\$	(48,865)	\$	(36,421)
2	Network Access Service Revenues		1,983		0		0		0		0		. 0		(7,810)		(5,827)
3	Long Distance Network Service Rev.		(3,306)		0		0		0		0		0		(4,599)		(7,905)
4	Miscellaneous		(7,192)		0		0		0		0		0		(3,402)		(10,594)
5	Total Oper. Rev. (L1 thru L4)		3,929		0		0		0		0		0		(64,676)		(60,747)
Ex	penses														, , ,		, , ,
6	Maintenance		1,168		6,527		0		0		8,564		0		0		16,259
7	Engineering Expense		208		143		0		0		439		0		0		790
8	Network Operations		2,315		1,099		0		0		7,210		0		0		10,624
9	Network Administration		103		50		0		0		132		0		0		285
10	Access Expense		(17,752)		0		0		0		0		0		0		(17,752)
11	Other		726		41		0		0		62		0		0		829
12	Total Cost of Svcs & Products(L6 thru L11)		(13,232)		7,860		0		0		16,408		0		(25,510)		(14,474)
13			23,288		3,984		0		0		10,031		0		(8,255)		29,048
14	Corporate Operations		17,855		1,266		0		0		1,364		0		) o		20,485
15	Property & Other Taxes		170		. 0		0		0		Ó		. 0		(3,741)		(3,571)
16	Uncollectibles		(1,469)		0		0		0		0		0		(1,117)		(2,586)
17	Tot Selling, Gen. & Admin.(L13 thru L16)		39,844		5,250		0		0		11,395		0		(13,113)		43,377
18	•		366		0		0		Ó		0		0		0		366
19	Depreciation Expense		0		0		107,968		0		0		0		(18,785)		89,183
20			1,370		0		0		ō		0		0		0		1,370
21			(29)		(686)		0		0		0		0		Ö		(715)
22	Total Operating Expense(L12+L17 thru L21)		28,319		12,424		107,968		Ō		27,803		0		(57,407)		119,107
23			(24,390)		13,252		(107,968)		ō		(27,803)		ō		(7,268)		(154,177)
	kes		(= 1,000)		,		(,,		•		(2.,500)		•		(,,200)		(.01,177)
	Federal Income Tax		(7,812)		(4,221)		(34,766)		0		(8,953)		0		(2,340)		(58,092)
25	State & Local Income Tax		(1,941)		(1,049)		(8,637)		ō		(2,224)		ō		(581)		(14,432)
26	Net Operating Income (L23-L24-L25)	\$	(14,637)	\$	18,522	\$	(64,565)	\$		\$	(16,626)	\$		\$	(4,347)		(81,653)
Otl		•	(11,007)	Ψ.	10,022	•	(01,000)	•		Ψ.	(10,020)	Ψ.		•	(1,017)		(01,000)
27			0		0		0		0		0		0		. 0		0
	Nonoperating Income Tax		0		0		ŏ		ő		0		. 0		0		0
29	and the second s		(14,637)		18,522		(64,565)		Ö.		(16,626)		Ö		(4,347)		(81,653)
30			(14,007)		0,022		(04,500)		0		(10,020)		o o		(4,047)		(81,000)
31			0		0		0		Ö		0		0		0		0
32			. 0		0		0		0		0		0		0		0
33	Net income (L29-L30-L31-L32)	\$	(14,637)	¢	18,522	¢	(64,565)	¢		\$	(16,626)	•		æ	(4,347)	e	(81,653)
00	1101 111001116 (LEG-LOV-LOT-LOZ)	Ψ	(14,037)	Φ	10,322	φ	(04,505)	Ψ	-	Φ	(10,020)	φ	-	Φ	(4,547)	Φ	(61,655)

#### Arizona Intrastate Operations Proforma Adjustment

#### End of Period Annualization Adjustment

#### Test Year Ending December 31, 1999

#### \$(000)

Operating Revenues	\$ 3,929
Operating Expenses	28,319
Total Operating Income Taxes	(9,753)
Net Operating Income	(14,637)
Rate Base	0
Revenue Requirement	\$ 24,966

In Decision 58927 (Docket No. E-1051-93-183) the Arizona Corporation Commission ordered U S WEST to synchronize test year revenues and various expenses with the end-of period rate base. This adjustment synchronizes the entire income statement with the end-of-period rate base.

#### Arizona Intrastate Operations Proforma Adjustment

#### Test Year Ended December 31, 1999

#### Wage and Salary Increase

#### \$(000)

Operating Revenues	\$ 0
Operating Expenses	13,110
Total Operating Income Taxes	(5,270)
Net Operating Income	(7,840)
Rate Base	0
Revenue Requirement	\$ 13,373

On March 1, 2000 U S WEST incurred additional salary expenses for management employees. Effective August 15, 2000 U S WEST will incur additional wage expenses for occupational employees. This adjustment reflects the salary and wage increases.

# Arizona Intrastate Operations Proforma Adjustment

#### Depreciation

#### Test Year Ending December 31, 1999

#### \$(000)

Operating Revenues	\$ 0
Operating Expenses	107,968
Total Operating Income Taxes	(43,403)
Net Operating Income	(64,565)
Rate Base	(64,565)
Revenue Requirement	\$ 98,169

This adjustment reflects the annual impact on the end of period 1999 investment of the April 25, 2000 order in U S WEST Communications' depreciation case , Docket No. T-01051B-97-0689

#### Arizona Intrastate Operations Proforma Adjustment

#### **Pension Asset**

#### Test Year Ending December 31, 1999

#### \$(000)

Operating Revenues	\$ 0
Operating Expenses	. 0
Total Operating Income Taxes	0
Net Operating Income	0
Rate Base	 66,221
Revenue Requirement	\$ 12,267

This adjustment reflects inclusion of the shareholder funded Pension Asset in Rate Base.

#### Arizona Intrastate Operations Proforma Adjustment

#### **PBOB** Adjustment

#### Test Year Ending December 31, 1999

#### \$(000)

Operating Revenues	\$ 0
Operating Expenses	27,803
Total Operating Income Taxes	(11,177)
Net Operating Income	(16,626)
Rate Base	5,585
Revenue Requirement	\$ 29,394

This adjustment is required to reflect Post Employment Benefits other than Pensions based on SFAS 106.

#### Arizona Intrastate Operations Proforma Adjustment

#### Remove Cable Services Investment

#### Test Year Ending December 31, 1999

#### \$(000)

Operating Revenues	\$ 0
Operating Expenses	0
Total Operating Income Taxes	0
Net Operating Income	0
Rate Base	(6,792)
Revenue Requirement	\$ (1,258)

This adjustment removes Cable Services Investment from U S WEST Communications regulated books. The request to transfer these investments is currently before the Commission in Docket No. T-01051B-99-0499.

#### **U S West Communications**

# Arizona Intrastate Operations Ratemaking Adjustment

#### Arizona Access Line Sale

#### Test Year Ending December 31, 1999

#### \$(000)

Operating Revenues	\$ (64,676)
Operating Expenses	(57,407)
Total Operating Income Taxes	(2,921)
Net Operating Income	(4,347)
Rate Base	(103,334)
Revenue Requirement	\$ (11,726)

This adjustment removes the revenue, expenses, and investment of the exchanges being sold to Citizen's Utility Company. This sale is being addressed in Docket No. T-01051B-99-0737.

# Arizona Intrastate Operations Three Year Revenue Requirement Adjustment

#### Gain from Bellcore Sale

#### Test Year Ending December 31, 1999

#### \$(000)

Operating Revenues	\$ 0
Operating Expenses	(673)
Total Operating Income Taxes	271
Net Operating Income	402
Rate Base	0
Revenue Requirement	\$ (686)

In Decision 60382 Docket No.(E-1051-97-139) the Arizona Corporation Commission approved U S WEST's sale of its share in Bellcore. The Commission also deferred ratemaking treatment to the next general rate case. Consistent with that order, U S WEST proposes that 50% of the intrastate gain on the sale be amortized to the ratepayers over three years. This adjustment accounts for that proposed treatment.

#### Arizona Intrastate Operations Automatic Adjustment Mechanism

#### **Reciprocal Compensation**

#### Test Year Ending December 31, 1999

#### \$(000)

Operating Revenues	\$ 7,932
Operating Expenses	20,924
Total Operating Income Taxes	(2,078)
Net Operating Income	(7,770)
Rate Base	0
Revenue Requirement	\$ 13,253

This adjustment sets forth the initial revenue requirement related to reciprocal compensation under an automatic adjustment mechanism. If adopted, the amount shown should be adjusted to the calendar quarter immediately preceding implementation of rates in this docket.

#### BEFORE THE ARIZONA CORPORATION COMMISSION

IN THE MATTER OF THE APPLICATION OF U S WEST COMMUNICATIONS, INC., A COLORADO CORPORATION, FOR A HEARING TO DETERMINE THE EARNINGS OF THE COMPANY, THE FAIR VALUE OF THE COMPANY FOR RATEMAKING PURPOSES, TO FIX A JUST AND REASONABLE RATE OF RETURN THEREON AND TO APPROVE RATE SCHEDULES DESIGNED TO DEVELOP SUCH RETURN	) ) ) ) ) ) ) ) ) ) ) ) ) ) )	DOCKET NO. T-1051B-99-105 AFFIDAVIT OF GEORGE REDDING
STATE OF COLORADO	)	00
COUNTY OF DENVER	; ) *	SS

George Redding, of lawful age being first duly sworn, deposes and states:

- 1. My name is George Redding. I am Director Regulatory Finance of USWEST Communications in Denver, Colorado.
- 2. Attached hereto and made a part hereof for all purposes is my third supplemental testimony.
- 3. I hereby swear and affirm that my answers contained in the attached third supplemental testimony to the questions therein propounded are true and correct to the best of my knowledge and belief.

George Redding

SUBSCRIBED AND SWOR	N to before me this 28 day of Apric , 2000.	
	AM R. CUAN - Millim All	-
My Commission Expires:	Notary Public	

My Commission Expires 10/28/2003

# BEFORE THE ARIZONA CORPORATION COMMISSION DOCKETED

MAY 0 3 2000

IN THE MATTER OF THE APPLICATION OF U S WEST COMMUNICATIONS, INC., A COLORADO CORPORATION, FOR A HEARING TO DETERMINE THE EARNINGS	BOCKETED BY
OF THE COMPANY, THE FAIR VALUE OF THE COMPANY FOR RATEMAKING PURPOSES, TO FIX A JUST AND REASONABLE RATE OF RETURN THEREON, AND TO APPPROVE RATE SCHEDULES DESIGNED TO DEVELOP SUCH RETURN.	) DOCKET NO. T-1051B-99-105 ) ) ) )

SUPPLEMENTAL DIRECT TESTIMONY

OF

PETER C. CUMMINGS

**US WEST COMMUNICATIONS** 

May 3, 2000

# TESTIMONY OF PETER C. CUMMINGS INDEX OF TESTIMONY

#### I. TESTIMONY

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Arizona Corporation Commission Docket No. T-1051B-99-105 U S WEST Communications Suppl.Testimony of Peter C. Cummings May 3, 2000

#### **EXECUTIVE SUMMARY**

#### 1. Current Responsibilities:

My name is Peter C. Cummings and my business address is 1600 Bell Plaza, Room 3005, Seattle, Washington 98191. I am employed by U S WEST Communications, Inc. (USWC) as Director - Finance and Economic Analysis.

My job responsibilities include financial analysis of capital costs and capital structure of U S WEST Communications. I develop cost of capital estimates for company cost studies, capital budgeting, and economic analysis. I also testify in state rate cases on rate of return, capital structure, and other financial issues.

#### 2. Purpose of Testimony:

I am appearing before the Corporation Commission to present an analysis of the cost of capital and capital structure for U S WEST Communications, Inc. (USWC). The purpose of my supplemental direct testimony is to update my previous recommendation to the Commission for a fair rate of return on equity and total capital for USWC.

i

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U S WEST Communications
Suppl.Testimony of Peter C. Cummings
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#### 3. Summary of Testimony:

#### **Update of Capital Structure**

The updated capital structure for USWC – Arizona contains 47.6% debt and 52.4% equity and the embedded cost of debt is 7.39%.

#### **Update of Fair Return on Equity Capital**

The conclusion of my testimony is that a fair return on the equity capital invested in Arizona is in the range of 13.5% to 14.5% and my specific recommendation is that the Commission authorize a fair return on equity capital of 14.0%.

#### **Overall Return Recommendation**

When the fair return on equity capital is combined with the Company's capital structure and debt costs, the overall return requirement is 10.86%. I recommend that the Commission set the authorized rate of return at 10.86%.

ij

Arizona Corporation Commission Docket No. T-1051B-99-105 U S WEST Communications Suppl. Testimony of Peter C. Cummings Page 1, May 3, 2000

1 2		IDENTIFICATION OF WITNESS
3		
4	Q.	PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND CURRENT
5		POSITION.
6		
7	A.	My name is Peter C. Cummings and my business address is 1600 Bell Plaza, Room
8		3005, Seattle, Washington 98191. I am employed by U S WEST Communications,
9		Inc. (USWC) as Director - Finance and Economic Analysis.
0		
1	Q.	ARE YOU THE SAME PETER C. CUMMINGS THAT FILED DIRECT TESTIMONY
2		IN THIS DOCKET?
3		
14	A.	Yes, I am. My work experience and qualifications are described in that testimony.
15		
16 17		PURPOSE OF TESTIMONY
18	Q.	WHAT IS THE PURPOSE OF YOUR SUPPLEMENTAL DIRECT TESTIMONY?
19		
20	Α.	The purpose of this testimony is to update my previous recommendation to the
21		Commission for a fair return on equity and total capital for USWC.

Arizona Corporation Commission Docket No. T-1051B-99-105 U S WEST Communications Suppl. Testimony of Peter C. Cummings Page 2, May 3, 2000

2

19

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Q.

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GIVEN THE VOLATILE CAPITAL MARKET CONDITIONS FOR U S WEST AND

QWEST RESULTING FROM THEIR PENDING MERGER, HAVE YOU MADE ANY

**COST OF CAPITAL UPDATE** 

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U S WEST Communications
Suppl. Testimony of Peter C. Cummings
Page 3, May 3, 2000

# CHANGES IN YOUR APPROACH TO ESTIMATING THE MARKET REQUIRED

Α.

**RETURN FOR USWC?** 

Yes. U S WEST is now essentially trading as a derivative of Qwest stock subject to the pricing conditions of the merger agreement. Valuation of U S WEST is further complicated by a relatively large dividend payout until the merger is consummated and a very small dividend payout thereafter. Furthermore, speculation about further business combinations affecting U S WEST and Qwest has added significantly to the price volatility of both stocks. In this market environment the best approach to estimating the market required return for USWC is to specifically exclude U S WEST from the analysis and rely upon market required return estimates for other telephone companies and companies that are risk-comparable to USWC.

Q. PLEASE SUMMARIZE THE RESULTS OF YOUR UPDATED ANALYSIS OF THE MARKET REQUIRED RETURN FOR USWC.

A. Using capital market data from the last two weeks in February, I updated the DCF and CAPM analyses for telephone companies and comparable risk companies using the same procedures as in my direct testimony. The results of these analyses are shown in Exhibits PC-3 through PC-6. As discussed above, I excluded

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U S WEST from the DCF and CAPM analyses. The following table summarizes the market required return on equity estimates for USWC:

3	CAPM	Comparable Companies	13.3%
4	CAPM	Telephone Companies	13.6%
5	DCF	Comparable Companies	13.9%
6	DCF	Telephone Companies	14.3%

The market required return estimates range from 13.3% to 14.3% with a midpoint of 13.8% and an average of 13.8%.

9

7

8

#### Q. DID YOU ALSO UPDATE THE REASONABLENESS CHECKS?

11

10

12 A. Yes. The expected return on the market has increased from 14.5% (as shown in my
13 direct testimony) to 15.6%. The expected return on the market is the average of
14 DCF and CAPM estimates of the required return on the Standard & Poor's 500
15 stocks. The current DCF estimate for the S&P 500 is 15.8% as shown in Exhibit
16 PCC-7 and the CAPM estimate is 15.3% as shown in Exhibit PCC-8. The increase
17 in market required return for equity investment in USWC is accompanied by an
18 increase in the market required for equity investment in the market as a whole.

19

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1 The updated equity risk premium reasonableness test in Exhibit PCC-9 shows a 2 higher, but narrower range of 14.1% to 14.3%. The current market required return 3 estimate for USWC of 13.8% is below the risk premium range. 4 5 Recommended Range for Cost of Equity and Fair Return on Equity 6 Q. WHAT IS YOUR UPDATED RECOMMENDATION FOR A FAIR RETURN ON 7 8 **EQUITY FOR USWC.** 9 10 Α. As explained in my direct testimony, the market required return on equity is not the 11 same as the cost of equity. The cost of equity is slightly greater due to stock 12 issuance costs. The market required return estimates for USWC need to be 13 adjusted by a factor of 1.17% to reflect the cost of equity capital which includes 14 stock issuance expenses. The adjustment is as follows: 15 Market Reg Return Adi Factor Cost of Equity Х 13.5% to 14.5% 16 13.3% to 14.3% 1.0117 17 My recommended range for a fair return on equity is the range of cost of equity 18 estimates of 13.5% to 14.5% and my specific recommendation for the Commission 19 allowed return on equity is the midpoint of the range, 14.0%

20

Arizona Corporation Commission Docket No. T-1051B-99-105 U S WEST Communications Suppl. Testimony of Peter C. Cummings Page 6, May 3, 2000

1 2		C	OVERALL RA	TE OF RETURN	RECOMMENDATION		
3	Q.	WHAT IS YOUR	UPDATED RI	ECOMMENDATION	ON FOR A FAIR OVERALL		
4		RETURN ON RA	ATE BASE FO	R USWC?			
5							
6	A.	Combining the f	air return on b	ook equity and U	SWC's capital structure and		
7		embedded debt cost, my recommendation for a fair overall return on rate base is					
8		10.86% which is	calculated as	follows:			
9			<u>Percent</u>	Cost	Weighted Cost		
10		Debt	47.6%	7.39%	3.52%		
11		Equity	52.4%	14.0%	7.34%		
12		Overall R	eturn		10.86%		
13							
14	Q.	DOES THIS CO	NCLUDE YOU	IR TESTIMONY?			
15	A.	Yes, it does.					

#### **BEFORE THE ARIZONA CORPORATION COMMISSION**

IN THE MATTER OF THE APPLICATION OF	)	
U S WEST COMMUNICATIONS, INC. A	)	
COLORADO CORPORATION, FOR A HEARING	)	
TO DETERMINE THE EARNINGS OF THE	)	
COMPANY FOR RATEMAKING PURPOSES	)	DOCKET NO.
TO FIX A JUST AND REASONABLE RATE OF	)	T-1051B-99-105
RETURN THEREON, AND TO APPROVE RATE	)	
SCHEDULES DESIGNED TO DEVELOP SUCH	)	
RETURN.	)	

#### **SUPPLEMENTAL DIRECT TESTIMONY EXHIBITS**

OF

**PETER C. CUMMINGS** 

**US WEST COMMUNICATIONS** 

May 3, 2000

#### **EXHIBIT OF PETER C. CUMMINGS**

#### **INDEX OF SUPPLEMENTAL DIRECT EXHIBITS**

	Exhibit
Rate of Return Recommendation	PCC-1
Capital Structure and Embedded Cost of Debt	PCC-2
DCF Analysis - Telephone Companies	PCC-3
DCF Analysis - Comparable Companies	PCC-4
CAPM Analysis - Telephone Companies	PCC-5
CAPM Analysis - Comparable Companies	PCC-6
DCF Analysis of S&P 500 Companies	PCC-7
CAPM Analysis of S&P 500 Companies	PCC-8
Equity Risk Premium	PCC-9

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Suplemental Direct Exhibits of Peter C. Cummings
Exhibit PCC-01
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#### **RATE OF RETURN RECOMMENDATIONS**

Return on Equity Range 13.5%

13.5% to 14.5%

Point Recommendation 14.0%

Overall Return Range 10.59% to 11.12%

Point Recommendation 10.86%

Arizona Corporation Commission
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Exhibit PCC-02
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#### U S WEST COMMUNICATIONS - Arizona Capital Structure - February 2000

SHORT TERM DEBT	\$(000)	Cost	Percent of Capital
Notes Payable Current Maturities Total Short Term Debt	\$62,313 \$88,684 \$150,997	5.92% 7.09% 6.61%	3.22% 4.58% 7.80%
LONG TERM DEBT			
Funded and Other LT Debt Capital Leases Total Long Term Debt	\$750,608 \$19,376 \$769,984	7.56% 6.68% 7.54%	38.77% 1.00% 39.77%
TOTAL DEBT	\$920,981	7.39%	47.6%
COMMON EQUITY	\$1,015,260		52.4%
TOTAL CAPITAL	\$1,936,240		100.0%

Arizona Corporation Commission
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Exhibit PCC-03
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# DCF Model Telephone Companies

	Expected Dividends				Growth	Equity		
Company	<u>Price</u>	<u>Qtr 1</u>	<u>Qtr 2</u>	<u>Qtr 3</u>	<u>Qtr 4</u>	<u>Yield</u>	<u>Rate</u>	Cost
	Α	В	С	D	E	F	G	H = F+G
Bell Atlantic	51.181	0.385	0.385	0.385	0.385	3.2%	11.0%	14.2%
BellSouth	39.819	0.209	0.209	0.209	0.209	2.2%	10.0%	12.2%
SBC Communications	37.594	0.274	0.274	0.274	0.274	3.1%	12.5%	15.6%
GTE Corp	60.919	0.470	0.470	0.470	0.470	3.3%	11.7%	15.0%

Mean

14.3%

Notes:

Expected dividends (current and future payments) are based upon historical increase patterns for each company

Dividend Yield is taken from the quarterly DCF calculation  $\frac{D(1+K)^{\wedge}.75 + D(1+K)^{\wedge}.50 + D(1+K)^{\wedge}.25 + D(1+K)^{\wedge}0}{Price}$ 

10-day average closing prices from Microsoft Investor Web Site (for the period 2/15/00 thru 2/29/00)

Growth rate from Institutional Brokers Estimate System (IBES)

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Exhibit PCC-04
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## DCF Model Comparable Risk Companies

	Expected Dividends							Equity
Company	<u>Price</u>	<u>Qtr 1</u>	Qtr 2	<u>Qtr 3</u>	<u>Qtr 4</u>	<u>Yield</u>	<u>Rate</u>	Cost
	Α	В	С	D	Ε	F	G	H = F + G
Abbott Laboratories	33.213	0.190	0.190	0.190	0.190	2.4%	12.0%	14.4%
Albertsons	26.200	0.205	0.205	0.205	0.205	3.3%	14.0%	17.3%
Anheuser-Busch Cos	61.325	0.300	0.300	0.330	0.330	2.1%	10.0%	12.1%
Brown-Forman CI B	49.388	0.310	0.310	0.310	0.339	2.7%	9.3%	12.0%
Deluxe Corp	23.463	0.370	0.370	0.370	0.370	6.7%	12.0%	18.7%
Dover Corp	38.250	0.115	0.115	0.131	0.131	1.4%	14.0%	15.4%
Dow Jones & Co	61.432	0.250	0.250	0.250	0.250	1.7%	11.0%	12.7%
DPL Inc	20.907	0.235	0.235	0.235	0.235	4.7%	6.0%	10.7%
Duke Energy	49.831	0.550	0.550	0.550	0.550	4.6%	9.0%	13.6%
Electronic Data Systems	68.338	0.150	0.150	0.150	0.150	0.9%	15.5%	16.4%
Emerson Electric	48.244	0.358	0.358	0.358	0.396	3.2%	10.8%	14.0%
FPL Group	39.575	0.540	0.540	0.540	0.540	5.7%	6.0%	11.7%
Gannett Co	63.642	0.210	0.210	0.235	0.235	1.5%	12.0%	13.5%
Gillette Co	36.922	0.148	0.170	0.170	0.170	1.9%	15.0%	16.9%
Illinois Tool Works	56.057	0.180	0.180	0.203	0.203	1.4%	13.0%	14.4%
International Bus. Mach.	110.763	0.120	0.136	0.136	0.136	0.5%	13.0%	13.5%
IPALCO Enterprises	17.031	0.160	0.160	0.160	0.160	3.9%	6.5%	10.4%
Johnson & Johnson	76.138	0.280	0.316	0.316	0.316	1.7%	13.0%	14.7%
Leggett & Platt Inc	16.400	0.100	0.100	0.100	0.100	2.6%	15.0%	17.6%
Eli Lilly and Company	59.313	0.260	0.260	0.260	0.260	1.9%	15.0%	16.9%
MBIA Inc	38.663	0.205	0.205	0.230	0.230	2.4%	12.0%	14.4%
McDonalds Corp	32.356	0.000	0.000	0.000	0.220	0.7%	12.5%	13.2%
Minnesota Mining Mfg Co	88.844	0.580	0.580	0.580	0.580	2.7%	11.0%	13.7%
Northern States Power	18.100	0.363	0.384	0.384	0.384	8.8%	6.0%	14.8%
OGE Energy Corp	18.444	0.333	0.333	0.333	0.333	7.5%	4.5%	12.0%
Otter Tail Power	37.845	0.510	0.510	0.510	0.510	5.6%	5.0%	10.6%
Pitney Bowes Inc	50.044	0.285	0.285	0.285	0.285	2.4%	14.0%	16.4%
Vulcan Materials	41.088	0.210	0.210	0.210	0.210	2.2%	12.0%	14.2%
Washington Post CIB	490.088	1.350	1.350	1.350	1.485	1.2%	10.0%	11.2%
WPS Resources Corp	24.525	0.505	0.505	0.519	0.519	8.7%	2.8%	11.5%
	Mean							14.0%
Truncated Mean (Eliminate the High and Low Estimates)								

#### Notes:

Expected dividends (current and future payments) are based upon historical increase patterns for each company Dividend Yield is from the quarterly DCF formula:  $D(1+K)^{\wedge}.75 + D(1+K)^{\wedge}.50 + D(1+K)^{\wedge}.25 + D(1+K)^{\wedge}.2$ 

10-day average closing prices from Microsoft Investor Web Site for the period 2/15/00 through 2/29/00 Growth Rates are from IBES.

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### CAPM - Intermediate Term Bonds Telephone Companies

Company	Risk Free <u>Rate</u> A	Average <u>Beta</u> B	Market Risk <u>Premium</u> C	Beta x <u>MRP</u> D = BxC	Equity <u>Cost</u> E = A+D
Bell Atlantic	6.57%	0.81	8.9%	7.2%	13.8%
BellSouth	6.57%	0.72	8.9%	6.4%	13.0%
SBC Communications	6.57%	0.84	8.9%	7.5%	14.1%
GTE Corp	6.57%	0.84	8.9%	7.5%	14.1%

Notes: The CAPM cost of equity estimate formula is:

0.80

Mean

K = Risk Free Rate + (Beta x Market Risk Premium)

Risk Free rate is the average of the 3-yr, 5-yr, and 10-yr

U.S. Treasury bond yields from the Federal Reserve

13.8%

Statistical Release -- the H15 Report (For the period 2/15/00 through 2/29/00)

Beta is average of Merrill Lynch and Value Line.

Market Risk Premium is an average of Ex-Post/Ex-Ante risk premiums.

EX-POST is the arithmetic mean risk premium for Market Results 1926-1999 from Ibbotson Associates (Stocks, Bonds, Bills & Inflation 2000 Yearbook) EX-ANTE risk premium is the current S&P DCF equity estimate minus the intermed. term Treasury bond yields

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Exhibit PCC-05
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#### CAPM - Long Term Bonds Telephone Companies

			Market	Beta	*
	Risk Free	Average	Risk	X	Equity
Company	<u>Rate</u>	Beta	<u>Premium</u>	<u>MRP</u>	<u>Cost</u>
	A	B	С	D = BxC	E = A+D
Bell Atlantic	6.18%	0.81	8.9%	7.2%	13.4%
BellSouth	6.18%	0.72	8.9%	6.4%	12.6%
SBC Communications	6.18%	0.84	8.9%	7.5%	13.7%
GTE Corp	6.18%	0.84	8.9%	7.5%	13.7%
			•		

0.80

Notes: The CAPM cost of equity estimate formula is:

Mean

K = Risk Free Rate + (Beta x Market Risk Premium)

Risk Free rate is the 30 year U.S. Treasury bond yield from the

Federal Reserve Statistical Release -- the H15 Report

13.4%

(For the period 2/15/00 through 2/29/00)

Beta is average of Merrill Lynch and Value Line.

Market Risk Premium is an average of Ex-Post/Ex-Ante risk premiums.

EX-POST is the arithmetic mean risk premium for Market Results 1926-1999 from Ibbotson Associates (Stocks, Bonds, Bills & Inflation 2000 Yearbook) EX-ANTE risk premium is the current S&P DCF equity estimate minus the long term Treasury bond yield.

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Exhibit PCC-06
Page 1 of 2 May 3, 2000

#### **CAPM** - Intermediate Term Bonds Comparable Risk Companies

	Risk Free	Average	Market Risk	Beta x	Equity	
Company	Rate	Beta	Premium	MRP.	Cost	
	A	<u>= 3.5.</u> B	C	D = BxC	E = A+D	
Abbott Laboratories	6.57%	0.94	8.9%	8.4%	15.0%	
Albertsons	6.57%	0.59	8.9%	5.3%	11.9%	
Anheuser-Busch Cos	6.57%	0.71	8.9%	6.3%	12.9%	
Brown-Foreman CI B	6.57%	0.75	8.9%	6.7%	13.3%	
Deluxe Corp	6.57%	0.90	8.9%	8.0%	14.6%	
Dover Corp	6.57%	0.88	8.9%	7.8%	14.4%	
Dow Jones & Co	6.57%	0.78	8.9%	6.9%	13.5%	
DPL Inc	6.57%	0.51	8.9%	4.5%	11.1%	
Duke Energy	6.57%	0.41	8.9%	3.6%	10.2%	
Electronic Data Systems	6.57%	1.02	8.9%	9.1%	15.7%	
Emerson Electric	6.57%	0.87	8.9%	7.7%	14.3%	
FPL Group	6.57%	0.43	8.9%	3.8%	10.4%	
Gannett Co	6.57%	0.94	8.9%	8.4%	15.0%	
Gillette Co	6.57%	1.03	8.9%	9.2%	15.8%	
Illinois Tool Works	6.57%	1.05	8.9%	9.3%	15.9%	
International Bus. Mach.	6.57%	1.03	8.9%	9.2%	15.8%	
IPALCO Enterprises	6.57%	0.40	8.9%	3.6%	10.2%	
Johnson & Johnson	6.57%	0.97	8.9%	8.6%	15.2%	
Leggett & Platt Inc	6.57%	1.15	8.9%	10.2%	16.8%	
Eli Lilly and Company	6.57%	0.98	8.9%	8.7%	15.3%	
MBIA Inc	6.57%	1.05	8.9%	9.3%	15.9%	
McDonalds Corp	6.57%	0.84	8.9%	7.5%	14.1%	
Minnesota Mining Mfg Co	6.57%	0.81	8.9%	7.2%	13.8%	
Northern States Power	6.57%	0.53	8.9%	4.7%	11.3%	
OGE Energy Corp	6.57%	0.38	8.9%	3.4%	10.0%	
Otter Tail Power	6.57%	0.50	8.9%	4.5%	11.1%	
Pitney Bowes Inc	6.57%	0.87	8.9%	7.7%	14.3%	
Vulcan Materials	6.57%	0.76	8.9%	6.8%	13.4%	
Washington Post CIB	6.57%	0.71	8.9%	6.3%	12.9%	
WPS Resources Corp	6.57%	0.50	8.9%	4.5%	11.1%	
	Mean	0.78			13.5%	
	Truncated M	lean			13.5%	
	(Eliminate the High and Low Estimates)					

#### Notes:

The CAPM cost of equity estimate formula is: K= Risk Free Rate + (Beta x Market Risk Premium)
Risk Free rate is the average of the 3-yr, 5-yr, and 10-yr U.S. Treasury bond yields from Federal Reserve
Statistical Release -- the H15 Report (For the period 2/15/00 through 2/29/00)
Beta is average of Merrill Lynch and Value Line.

Market Risk Premium is an average of Ex-Post/Ex-Ante risk premiums.

EX-POST is the arithmetic mean risk premium for 1926-1999 from Ibbotson Associates 2000 Yearbook

EX-ANTE risk premium is the current S&P DCF equity estimate minus the intermediate term Treasury bondyields

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Exhibit PCC-06
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### **CAPM - Long Term Bonds Comparable Risk Companies**

Company	Risk Free <u>Rate</u> A	Average <u>Beta</u> B	Market Risk <u>Premium</u> C	Beta x <u>MRP</u> D = BxC	Equity <u>Cost</u> E = A+D		
Abbott Laboratories	6.18%	0.94	8.9%	8.4%	14.6%		
Albertsons	6.18%	0.59	8.9%	5.3%	11.5%		
Anheuser-Busch Cos	6.18%	0.71	8.9%	6.3%	12.5%		
Brown-Foreman CI B	6.18%	0.75	8.9%	6.7%	12.9%		
Deluxe Corp	6.18%	0.90	8.9%	8.0%	14.2%		
Dover Corp	6.18%	0.88	8.9%	7.8%	14.0%		
Dow Jones & Co	6.18%	0.78	8.9%	6.9%	13.1%		
DPL Inc	6.18%	0.51	8.9%	4.5%	10.7%		
Duke Energy	6.18%	0.41	8.9%	3.6%	9.8%		
Electronic Data Systems	6.18%	1.02	8.9%	9.1%	15.3%		
Emerson Electric	6.18%	0.87	8.9%	7.7%	13.9%		
FPL Group	6.18%	0.43	8.9%	3.8%	10.0%		
Gannett Co	6.18%	0.94	8.9%	8.4%	14.6%		
Gillette Co	6.18%	1.03	8.9%	9.2%	15.4%		
Illinois Tool Works	6.18%	1.05	8.9%	9.3%	15.5%		
International Bus. Mach.	6.18%	1.03	8.9%	9.2%	15.4%		
IPALCO Enterprises	6.18%	0.40	8.9%	3.6%	9.8%		
Johnson & Johnson	6.18%	0.97	8.9%	8.6%	14.8%		
Leggett & Platt Inc	6.18%	1.15	8.9%	10.2%	16.4%		
Eli Lilly and Company	6.18%	0.98	8.9%	8.7%	14.9%		
MBiA inc	6.18%	1.05	8.9%	9.3%	15.5%		
McDonalds Corp	6.18%	0.84	8.9%	7.5%	13.7%		
Minnesota Mining Mfg Co	6.18%	0.81	8.9%	7.2%	13.4%		
Northern States Power	6.18%	0.53	8.9%	4.7%	10.9%		
OGE Energy Corp	6.18%	0.38	8.9%	3.4%	9.6%		
Otter Tail Power	6.18%	0.50	8.9%	4.5%	10.7%		
Pitney Bowes Inc	6.18%	0.87	8.9%	7.7%	13.9%		
Vulcan Materials	6.18%	0.76	8.9%	6.8%	13.0%		
Washington Post CIB	6.18%	0.71	8.9%	6.3%	12.5%		
WPS Resources Corp	6.18%	0.50	8.9%	4.5%	10.7%		
	Mean	0.78			13.1%		
	Truncated M	lean			13.1%		
(Eliminate the High and Low Estimates)							

(Eliminate the High and Low Estimates)

#### Notes:

The CAPM cost of equity estimate formula is: K= Risk Free Rate + (Beta x Market Risk Premium) Risk Free rate is the average of the 30yr U.S. Treasury bond yields from Federal Reserve Statistical Release -- the H15 Report (For the period 2/15/00 through 2/29/00) Beta is average of Merrill Lynch and Value Line.

Market Risk Premium is an average of Ex-Post/Ex-Ante risk premiums.

EX-POST is the arithmetic mean risk premium for 1926-1999 from Ibbotson Associates 2000 Yearbook

EX-ANTE risk premium is the current S&P DCF equity estimate minus the intermediate term Treasury bondyields

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Source: S&P Compustat Data Base					Market
Source Date: February 29, 2000			Expected	Expected	Required
	Current	Current	Dividend	IBES	Return
S&P Company Name	<u>Dividend</u>	<u>Price</u>	<u>Yield</u>	LT Growth	(Div Yld+Growth)
	Α	В	C= (calc)	D	E = C + D
ABBOTT LABORATORIES	0.680	33.000	2.2%	12.0%	14.2%
ADOBE SYSTEMS INC	0.100	102.000	0.1%		20.1%
AETNA INC	0.800	41.125	2.1%		16.6%
AFLAC INC	0.300	36.562	0.9%		15.9%
AIR PRODUCTS & CHEMICALS INC	0.720	25.750	3.0%		14.5%
ALBERTO-CULVER CO -CL B	0.260	21.375	1.3%		12.3%
ALBERTSONS INC	0.720	24.500	3.1%		17.1%
ALCAN ALUMINIUM LTD	0.600	33.000	1.9%	7.0%	8.9%
ALCOA INC	0.805	68.500	1.2%	9.5%	10.7%
ALLEGHENY TECHNOLOGIES INC	1.280	16.938	8.0%	12.0%	20.0%
ALLERGAN INC	0.280	50.312	0.6%	18.5%	19.1%
ALLSTATE CORP	0.600	19.688	3.2%	10.0%	13.2%
ALLTEL CORP	1.280	58.000	2.4%	15.0%	17.4%
AMERADA HESS CORP	0.600	50.562	1.2%	5.0%	6.2%
AMEREN CORP	2.540	30.000	8.6%	3.0%	11.6%
AMERICAN ELECTRIC POWER	2.400	28.125	8.7%	3.0%	11.7%
AMERICAN EXPRESS	0.900	134.188	0.7%	14.0%	14.7%
AMERICAN GENERAL CORP	1.600	52.188	3.2%	12.0%	15.2%
AMERICAN GREETINGS -CL A	0.800	17.250	4.9%		14.9%
AMERICAN HOME PRODUCTS CORF	0.900	43.500	2.2%		14.7%
AMERICAN INTERNATIONAL GROUF	0.200	88.438	0.2%		14.2%
AMSOUTH BANCORPORATION	0.800	14.312	5.9%		15.9%
ANADARKO PETROLEUM CORP	0.200	30.750	0.7%	15.0%	15.7%
ANHEUSER-BUSCH COS INC	1.200	64.000	2.0%		12.0%
AON CORP	0.840	21.062	4.2%		16.2%
APACHE CORP	0.280	36.500	0.8%		14.3%
ARCHER-DANIELS-MIDLAND CO	0.200	10.062	2.1%		12.6%
ARMSTRONG WORLD INDS INC	1.920	19.000	10.6%		20.6%
ASHLAND INC	1.100	31.125	3.7%		11.7%
ASSOC FST CAPITAL CP -CL A	0.260	19.875	1.4%		17.4%
AT&T CORP	0.880	49.375	1.9%	13.0%	14.9%
ATLANTIC RICHFIELD CO	2.850	71.000	4.2%		13.2%
AUTODESK INC	0.240	44.688	0.6%		18.6%
AUTOMATIC DATA PROCESSING	0.350	43.562	0.9%		15.9%
AVERY DENNISON CORP	1.080	60.688	1.9%		14.9%
AVON PRODUCTS	0.720	27.062	2.8%		15.8%
BAKER-HUGHES INC	0.460	25.875	1.9%		16.9%
BALL CORP	0.600	26.812	2.4%		14.4%
BANK OF AMERICA CORP	2.000	46.000	4.6%		16.6%
BANK OF NEW YORK CO INC	0.640	33.250	2.0%		14.0%
BANK ONE CORP	1.680	25.875	6.9%		18.9%
BARD (C.R.) INC	0.800	39.500	2.1%	12.0%	14.1%

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Standard & 1 cor 3 500 Compar	1103				
Source: S&P Compustat Data Base					Market
Source Date: February 29, 2000	<u> </u>		Expected	Expected	Required
0000	Current	Current	Dividend	IBES	Return
S&P Company Name	<u>Dividend</u>	<u>Price</u>	<u>Yield</u>	LT Growth	(Div Yld+Growth)
	Α	В	C= (calc)	D	E = C + D
BARRICK GOLD CORPORATION	0.200	16.312	1.3%	10.0%	11.3%
BAUSCH & LOMB INC	1.040	52.750	2.1%	15.0%	17.1%
BAXTER INTERNATIONAL INC	1.164	54.500	2.1%		15.3%
BB&T CORP	0.800	23.500	2.5 % 3.6%		15.6%
BEAR STEARNS COMPANIES INC	0.571	39.250	1.5%		14.0%
BECTON DICKINSON & CO	0.371	31.000	1.3%		14.3%
BELL ATLANTIC CORP	1.540	48.938	3.3%		14.3%
BELLSOUTH CORP	0.760	40.562	2.0%	10.0%	12.0%
BEMIS CO	0.760	29.750	3.3%	12.0%	15.3%
BESTFOODS	1.060	41.938	3.3% 2.7%	10.0%	
BIOMET INC				15.0%	12.7%
BLACK & DECKER CORP	0.140	33.000	0.5%		15.5%
	0.480	32.938	1.6%	15.0%	16.6%
BLOCK H & R INC BOEING CO	1.100	43.875	2.7%	15.0%	17.7%
	0.560	36.938	1.6%	15.0%	16.6%
BOISE CASCADE CORP	0.600	29.812	2.0%	3.0%	5.0%
BRIGGS & STRATTON	1.200	33.438	3.7%	8.0%	11.7%
BRISTOL MYERS SQUIBB	0.860	57.250	1.6%		14.6%
BROWN-FORMAN -CL B	1.240	47.625	2.7%		
BRUNSWICK CORP	0.500	17.688	3.0%		15.5%
BURLINGTON RESOURCES INC	0.550	27.625	2.1%		17.1%
CAMPBELL SOUP CO	0.900	28.375	3.3%		
CAPITAL ONE FINL CORP	0.107	36.812	0.3%		23.3%
CARDINAL HEALTH INC	0.100	41.812	0.3%		20.3%
CARNIVAL CORP	0.420	28.812	1.6%	16.4%	18.0%
CAROLINA POWER & LIGHT	2.000	29.750	6.9%		11.9%
CATERPILLAR INC	1.300	35.062	3.9%		13.9%
CENTEX CORP	0.160	19.688	0.9%		13.4%
CENTRAL & SOUTH WEST CORP	1.740	16.812	10.5%	3.0%	13.5%
CENTURYTEL INC	0.180	33.625	0.6%		15.6%
CHAMPION INTERNATIONAL CORP	0.400	51.750	0.8%	5.5%	6.3%
CHASE MANHATTAN CORP	1.640	79.625	2.2%		14.2%
CHEVRON CORP	2.600	74.688	3.6%		11.6%
CHUBB CORP	1.280	49.188	2.8%		14.8%
CIGNA CORP	1.200	73.812	1.7%		14.7%
CINCINNATI FINANCIAL CORP	0.680	29.875	2.4%	8.0%	10.4%
CINERGY CORP	1.800	21.375	8.6%	4.0%	12.6%
CIRCUIT CITY STR CRCT CTY GP	0.070	40.438	0.2%	18.0%	18.2%
CITIGROUP INC	0.560	51.812	1.2%	13.5%	14.7%
CLOROX CO/DE	0.800	40.438	2.1%	13.0%	15.1%
CMS ENERGY CORP	1.460	16.750	9.2%	10.0%	19.2%
COASTAL CORP	0.250	42.062	0.6%	12.0%	12.6%
COCA-COLA CO	0.640	48.625	1.4%	14.0%	15.4%

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Source: S&P Compustat Data Base					Market
Source Date: February 29, 2000			Expected	Expected	Required
201.00 20.0. / Co. daily 20, 2000	Current	Current	Dividend	IBES	Return
S&P Company Name	Dividend	<u>Price</u>	Yield	LT Growth	
	A	<u>- жее</u> В	C= (calc)	D	E = C + D
		_	- ()	_	
COCA-COLA ENTERPRISES	0.160	23.375	0.8%	22.5%	23.3%
COLGATE-PALMOLIVE CO	0.630	52.188	1.3%	13.0%	14.3%
COLUMBIA ENERGY GROUP	0.900	59.000	1.6%	10.5%	12.1%
COLUMBIA/HCA HLTHCR -VTG	0.080	19.312	0.4%	15.0%	15.4%
COMCAST CORP -CL A SPL	0.047	42.500	0.1%	15.5%	15.6%
COMERICA INC	1.440	36.812	4.1%	11.0%	15.1%
COMPAQ COMPUTER CORP	0.100	25.125	0.4%	20.0%	20.4%
COMPUTER ASSOCIATES INTL INC	0.080	64.250	0.1%	16.5%	16.6%
CONAGRA INC	0.814	16.375	5.2%	11.0%	16.2%
CONOCO INC	0.760	19.688	4.0%	7.5%	11.5%
CONSECO INC	0.600	14.625	4.4%	15.0%	19.4%
CONSOLIDATED EDISON INC	2.140	27.562	7.9%	3.5%	11.4%
CONSTELLATION ENERGY CORP	1.680	29.750	5.8%	5.0%	10.8%
COOPER INDUSTRIES INC	1.320	30.250	4.6%	10.0%	14.6%
COOPER TIRE & RUBBER	0.420	10.812	4.1%	9.0%	13.1%
COORS (ADOLPH) -CL B	0.660	43.875	1.6%	10.0%	11.6%
CORNING INC	0.720	188.000	0.4%	17.0%	17.4%
COUNTRYWIDE CREDIT IND INC	0.400	24.938	1.7%	13.0%	14.7%
CRANE CO	0.400	19.875	2.1%	12.0%	14.1%
CROWN CORK & SEAL CO INC	1.000	14.000	7.5%	10.0%	17.5%
CSX CORP	1.200	22.188	5.7%	10.0%	15.7%
CUMMINS ENGINE	1.200	33.312	3.7%	8.0%	11.7%
CVS CORP	0.230	35.000	0.7%	17.0%	17.7%
DANA CORP	1.240	21.375	6.1%	11.0%	17.1%
DANAHER CORP	0.060	40.812	0.2%	16.0%	16.2%
DARDEN RESTAURANTS INC	0.080	13.188	0.6%	11.5%	12.1%
DEERE & CO	0.880	35.750	2.6%	10.0%	12.6%
DELPHI AUTOMOTIVE SYS CORP	0.280	16.688	1.8%	10.0%	11.8%
DELTA AIR LINES INC	0.100	45.625	0.2%	6.0%	6.2%
DELUXE CORP	1.480	23.438	6.7%	12.0%	18.7%
DILLARDS INC -CL A	0.160	17.375	1.0%	10.0%	11.0%
DISNEY (WALT) COMPANY	0.210	33.500	0.7%	15.0%	15.7%
DOLLAR GENERAL	0.128	20.938	0.7%		23.7%
DOMINION RESOURCES INC	2.580	36.688	7.3%		14.8%
DONNELLEY (R R) & SONS CO	0.880	19.125	4.9%	12.0%	16.9%
DOVER CORP	0.460	38.562	1.3%		15.3%
DOW CHEMICAL	3.480	108.500	3.3%		11.3%
DOW JONES & CO INC	0.960	62.375	1.6%		12.6%
DTE ENERGY CO	2.060	30.188	7.0%		12.0%
DU PONT (E I) DE NEMOURS	1.400	50.500	2.9%		12.9%
DUKE ENERGY CORP	2.200	48.500	4.7%		13.7%
DUN & BRADSTREET CORP	0.740	26.188	3.0%		13.5%
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Source: S&P Compustat Data Base					Market
Source Date: February 29, 2000			Expected	Expected	Required
200, 200	Current	Current	Dividend	IBES	Return
S&P Company Name	Dividend	Price	Yield	LT Growth	(Div Yld+Growth)
<u> </u>	A	B	C= (calc)	D	E = C + D
		_	- ()	_	_ 0.5
EASTERN ENTERPRISES	1.720	57.875	3.1%	6.5%	9.6%
EASTMAN CHEMICAL CO	1.760	35.938	5.1%	8.0%	13.1%
EASTMAN KODAK CO	1.760	57.312	3.2%	10.0%	13.2%
EATON CORP	1.760	74.938	2.5%	10.0%	12.5%
ECOLAB INC	0.420	28.250	1.6%	15.0%	16.6%
EDISON INTERNATIONAL	1.080	26.250	4.3%	10.0%	14.3%
EL PASO ENERGY CORP/DE	0.800	37.062	2.3%	13.0%	15.3%
ELECTRONIC DATA SYSTEMS CORF	0.600	64.500	1.0%	15.5%	16.5%
EMERSON ELECTRIC CO	1.430	45.562	3.3%	10.8%	14.1%
ENGELHARD CORP	0.400	13.625	3.1%	12.8%	15.9%
ENRON CORP	0.500	68.750	0.8%	15.0%	15.8%
ENTERGY CORP	1.200	20.250	6.1%	5.0%	11.1%
EQUIFAX INC	0.370	21.188	1.9%	15.0%	16.9%
EXXON MOBIL CORP	1.760	75.312	2.4%	8.0%	10.4%
FANNIE MAE	1.080	53.000	2.2%	13.2%	15.4%
FIFTH THIRD BANCORP	0.960	52.062	2.0%	15.0%	17.0%
FIRST DATA CORP	0.080	45.000	0.2%	14.0%	14.2%
FIRST UNION CORP (N C)	1.880	29.500	6.7%	11.0%	17.7%
FIRSTAR CORP	0.650	17.812	3.9%	15.0%	18.9%
FIRSTENERGY CORP	1.500	18.500	8.3%	5.0%	13.3%
FLEETBOSTON FINANCIAL CORP	1.200	27.250	4.6%	11.0%	15.6%
FLORIDA PROGRESS CORP	2.180	42.625	5.2%	5.0%	10.2%
FLUOR CORP	1.000	28.438	3.7%	11.5%	15.2%
FORD MOTOR CO	2.000	41.625	5.0%	7.0%	12.0%
FORT JAMES CORP	0.600	18.812	3.4%	13.5%	16.9%
FORTUNE BRANDS INC	0.920	21.875	4.5%	11.9%	16.4%
FPL GROUP INC	2.080	38.625	5.5%	6.0%	11.5%
FRANKLIN RESOURCES INC	0.240	27.188	0.9%	14.0%	14.9%
FREEPRT MCMOR COP&GLD -CL B	0.200	13.750	1.6%	22.0%	23.6%
GANNETT CO	0.840	65.188	1.4%	12.0%	13.4%
GAP INC	0.089	48.312	0.2%	20.0%	20.2%
GENERAL DYNAMICS CORP	0.960	43.250	2.4%	12.0%	14.4%
GENERAL ELECTRIC CO	1.640	132.375	1.3%	14.0%	15.3%
GENERAL MILLS INC	1.100	32.938	3.5%	10.0%	13.5%
GENERAL MOTORS CORP	2.000	76.062	2.7%	7.0%	9.7%
GENUINE PARTS CO	1.040	22.562	4.8%	8.0%	12.8%
GEORGIA-PACIFIC GROUP	0.500	34.688	1.5%	7.0%	8.5%
GILLETTE CO	0.590	35.250	1.8%	15.0%	16.8%
GOLDEN WEST FINANCIAL CORP	0.210	28.500	0.8%	11.5%	12.3%
GOODRICH (B F) CO	1.100	23.938	4.9%	12.0%	16.9%
GOODYEAR TIRE & RUBBER CO	1.200	22.875	5.5%	8.0%	13.5%
GPU INC	2.120	24.875	8.7%	3.5%	12.2%

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Source: S&P Compustat Data Base					Market
Source Date: February 29, 2000			Expected	Expected	Required
	Current	Current	Dividend	IBES	Return
S&P Company Name	<u>Dividend</u>	<u>Price</u>	<u>Yield</u>	LT Growth	(Div Yld+Growth)
	Α	В	C= (calc)	D	E = C + D
ODAINOED (MANA) INIO	0.040	40.040	4.00/	40.00/	10.00/
GRAINGER (W W) INC	0.640	42.812	1.6%		13.9%
GREAT ATLANTIC & PAC TEA CO	0.400	23.438	1.8%	12.0%	13.8%
GREAT LAKES CHEMICAL CORP	0.320	29.062	1.2%	11.5%	12.7%
GTE CORP	1.880	59.000	3.4%	11.7%	15.1%
GUIDANT CORP	0.025	67.375	0.0%	20.0%	20.0%
HALLIBURTON CO	0.500	38.188	1.4%	15.0%	16.4%
HARCOURT GENERAL INC	0.840	34.438	2.6%	15.0%	17.6%
HARLEY-DAVIDSON INC	0.180	68.125	0.3%	20.0%	20.3%
HARTFORD FINL SVCS GRP INC	0.960	31.250	3.2%	11.0%	14.2%
HASBRO INC	0.240	15.750	1.6%	14.5%	16.1%
HEINZ (H J) CO	1.470	31.938	4.8%	10.0%	14.8%
HERCULES INC	1.080	16.500	6.9%	10.5%	17.4%
HERSHEY FOODS CORP	1.040	43.938	2.5%	10.0%	12.5%
HEWLETT-PACKARD CO	0.640	134.500	0.5%	15.0%	15.5%
HILTON HOTELS CORP	0.080	7.000	1.2%	15.0%	16.2%
HOME DEPOT INC	0.160	57.812	0.3%	24.0%	24.3%
HOMESTAKE MINING	0.050	6.500	0.8%	18.5%	19.3%
HONEYWELL INTERNATIONAL INC	0.680	48.125	1.5%	15.0%	16.5%
HOUSEHOLD INTERNATIONAL INC	0.680	31.938	2.3%	15.0%	17.3%
HUNTINGTON BANCSHARES	0.800	20.875	4.0%	9.0%	13.0%
IKON OFFICE SOLUTIONS	0.160	7.000	2.4%	13.0%	15.4%
ILLINOIS TOOL WORKS	0.720	51.688	1.5%	13.0%	14.5%
IMS HEALTH INC	0.080	20.125	0.4%	20.0%	20.4%
INGERSOLL-RAND CO	0.680	38.312	1.9%	12.0%	13.9%
INTEL CORP	0.120	113.000	0.1%	20.0%	20.1%
INTERPUBLIC GROUP OF COS	0.340	40.188	0.9%	14.2%	15.1%
INTL BUSINESS MACHINES CORP	0.480	102.750	0.5%		13.5%
INTL FLAVORS & FRAGRANCES	1.520	30.000	5.3%		14.3%
INTL PAPER CO	1.000	36.812	2.8%		7.8%
ITT INDUSTRIES INC	0.600	24.250	2.6%	13.8%	16.4%
JEFFERSON-PILOT CORP	1.320	52.062	2.7%	11.5%	14.2%
JOHNSON & JOHNSON	1.120	72.000	1.7%	13.0%	14.7%
JOHNSON CONTROLS INC	1.120	53.375	2.2%	14.0%	16.2%
JOSTENS INC	0.880	24.062	3.8%	10.0%	13.8%
KANSAS CITY SOUTHERN INDS	0.160	78.750	0.2%	15.5%	15.7%
KAUFMAN & BROAD HOME CORP	0.300	19.125	1.7%	15.0%	16.7%
KELLOGG CO	0.980	25.312	4.0%	9.0%	13.0%
KERR-MCGEE CORP	1.800	44.750	4.1%	5.0%	9.1%
KEYCORP	1.040	16.938	6.4%	10.0%	16.4%
KIMBERLY-CLARK CORP	1.040	51.500	2.1%	11.0%	13.1%
KNIGHT-RIDDER INC	0.920	46.875	2.1%	11.8%	13.9%
LEGGETT & PLATT INC	0.360	16.812	2.3%	15.0%	17.3%

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Standard & 1 Ooi 3 300 Compar	lics	•			
Source: S&P Compustat Data Base					Market
Source Date: February 29, 2000			Expected	Expected	Required
	Current	Current	Dividend	IBES	Return
S&P Company Name	<u>Dividend</u>	<u>Price</u>	<u>Yield</u>	LT Growth	(Div Yld+Growth)
	Α	В	C= (calc)	D	E = C + D
LEHMAN BROTHERS HOLDINGS INC	0.360	72.500	0.5%		11.5%
LILLY (ELI) & CO	0.920	59.438	1.7%		16.7%
LIMITED INC	0.600	34.000	1.9%	13.0%	14.9%
LINCOLN NATIONAL CORP	1.100	27.625	4.2%		16.2%
LIZ CLAIBORNE INC	0.450	37.438	1.3%	11.0%	12.3%
LOCKHEED MARTIN CORP	0.880	17.438	5.3%	10.0%	15.3%
LOEWS CORP	1.000	44.500	2.4%	13.0%	15.4%
LONGS DRUG STORES INC	0.560	18.562	3.2%	10.0%	13.2%
LOUISIANA-PACIFIC CORP	0.560	11.812	5.0%	11.1%	16.1%
LOWES COS	0.140	47.812	0.3%	21.0%	21.3%
LUCENT TECHNOLOGIES INC	0.080	59.500	0.1%	20.0%	20.1%
MALLINCKRODT INC	0.660	24.625	2.8%	11.5%	14.3%
MARRIOTT INTL INC	0.220	27.562	0.9%	16.5%	17.4%
MARSH & MCLENNAN COS	1.800	77.375	2.5%	13.0%	15.5%
MASCO CORP	0.480	17.875	2.9%	15.0%	17.9%
MATTEL INC	0.360	9.625	4.0%	15.0%	19.0%
MAY DEPARTMENT STORES CO	0.890	26.188	3.6%		14.6%
MAYTAG CORP	0.720	26.438	2.9%		15.9%
MBIA INC	0.820	38.375	2.3%		14.3%
MBNA CORP	0.280	22.875	1.3%		21.3%
MCDONALDS CORP	0.195	31.625	0.7%		13.2%
MCGRAW-HILL COMPANIES	0.860	50.875	1.8%		13.8%
MCKESSON HBOC INC	0.240	19.375	1.4%		19.4%
MEAD CORP	0.680	29.938	2.4%		11.4%
MEDTRONIC INC	0.160	48.438	0.4%		18.4%
MELLON FINANCIAL CORP	0.800	30.125	2.8%		14.8%
MERCK & CO	1.160	61.562	2.0%		14.0%
MEREDITH CORP	0.300	28.625	1.1%		14.1%
MERRILL LYNCH & CO	1.080	102.500	1.1%		13.1%
MGIC INVESTMENT CORP/WI	0.100	37.375	0.3%	13.0%	13.1%
MILACRON INC	0.100	13.875	3.7%		15.7%
MILLIPORE CORP	0.440	53.438	0.9%		15.9%
MINNESOTA MINING & MFG CO	2.240	88.188			
MOLEX INC			2.7%		13.7%
MONSANTO CO	0.100	55.875	0.2%		16.2%
	0.120	38.812	0.3%		20.3%
MORGAN (J P) & CO	4.000	111.188	3.8%		13.3%
MORGAN STANLEY DEAN WITTER	0.480	70.438	0.7%		14.7%
MOTOROLA INC	0.480	170.375	0.3%		20.3%
NABISCO GROUP HLDGS CORP	0.490	8.625	6.0%		15.5%
NATIONAL CITY CORP	1.080	19.250	5.9%		15.9%
NATIONAL SERVICE INDS INC	1.280	20.625	6.5%		16.5%
NEW CENTURY ENERGIES INC	2.320	27.062	8.8%	5.0%	13.8%

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Source: S&P Compustat Data Base					Market
Source Date: February 29, 2000			Expected	Expected	Required
Source Date. February 29, 2000	Current	Current	Dividend	IBES	Return
S&P Company Name_	Dividend	Price	Yield	LT Growth	(Div Yld+Growth)
Sar Company Name	A	B	C= (calc)	D D	E = C + D
	^	Ь	C= (Calc)	Ь	L=O+D
NEW YORK TIMES CO -CL A	0.420	42.250	1.1%	13.0%	14.1%
NEWELL RUBBERMAID INC	0.800	23.250	3.7%	15.0%	18.7%
NEWMONT MINING CORP	0.120	22.125	0.6%	20.0%	20.6%
NICOR INC	1.560	30.375	5.3%	6.0%	11.3%
NIKE INC -CL B	0.480	28.438	1.8%	15.0%	16.8%
NORDSTROM INC	0.320	21.312	1.6%	15.0%	16.6%
NORFOLK SOUTHERN CORP	0.800	13.562	6.2%	10.5%	16.7%
NORTEL NETWORKS CORP	0.150	115.781	0.1%	20.0%	20.1%
NORTHERN STATES POWER/MN	1.450	17.562	8.5%	6.0%	14.5%
NORTHERN TRUST CORP	0.540	56.500	1.0%	12.0%	13.0%
NORTHROP GRUMMAN CORP	1.600	45.438	3.7%	9.0%	12.7%
NUCOR CORP	0.520	49.688	1.1%	15.0%	16.1%
OCCIDENTAL PETROLEUM CORP	1.000	16.062	6.6%	12.0%	18.6%
OLD KENT FINANCIAL CORP	0.880	26.188	3.5%	11.0%	14.5%
OMNICOM GROUP	0.700	94.188	0.8%	15.8%	16.6%
OWENS CORNING	0.300	14.500	2.2%	10.0%	12.2%
PACCAR INC	0.800	43.062	1.9%	9.5%	11.4%
PAINE WEBBER GROUP	0.440	38.250	1.2%	10.5%	11.7%
PALL CORP	0.640	19.750	3.5%	14.5%	18.0%
PARKER-HANNIFIN CORP	0.680	36.250	2.0%	12.0%	14.0%
PAYCHEX INC	0.360	50.062	0.8%	27.0%	27.8%
PE CORP BIOSYSTEMS	0.170	105.000	0.2%	23.5%	23.7%
PECO ENERGY CO	1.000	37.312	2.8%	8.0%	10.8%
PENNEY (J C) CO	1.150	15.750	7.7%	10.0%	17.7%
PEOPLES ENERGY CORP	1.960	28.938	6.9%	4.5%	11.4%
PEP BOYS-MANNY MOE & JACK	0.270	6.188	4.7%	15.0%	19.7%
PEPSICO INC	0.540	32.125	1.8%	13.0%	14.8%
PERKINELMER INC	0.560	64.625	0.9%	15.0%	15.9%
PFIZER INC	0.320	32.125	1.1%	19.0%	20.1%
PG&E CORP	1.200	20.625	6.0%	7.0%	13.0%
PHARMACIA & UPJOHN INC	1.080	47.625	2.4%	13.0%	15.4%
PHELPS DODGE CORP	2.000	47.125	4.4%	6.5%	10.9%
PHILIP MORRIS COS INC	1.920	20.188	10.1%	12.0%	22.1%
PHILLIPS PETROLEUM CO	1.360	38.125	3.7%	9.0%	12.7%
PINNACLE WEST CAPITAL	1.400	27.625	5.2%	6.0%	11.2%
PITNEY BOWES INC	1.020	49.500	2.2%	14.0%	16.2%
PLACER DOME INC	0.100	8.750	1.2%	10.0%	11.2%
PNC BANK CORP	1.800	38.688	4.9%	10.0%	14.9%
POLAROID CORP	0.600	25.062	2.5%	10.0%	12.5%
POTLATCH CORP	1.740	38.000	4.7%	7.0%	11.7%
PPG INDUSTRIES INC	1.520	49.375	3.2%	9.5%	12.7%
PPL CORP	1.000	20.125	5.1%	3.5%	8.6%

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Source: S&P Compustat Data Base					Market
Source Date: February 29, 2000			Expected	Expected	Required
	Current	Current	Dividend	IBES	Return
S&P Company Name	<u>Dividend</u>	<u>Price</u>	<u>Yield</u>	LT Growth	(Div Yld+Growth)
	Α	В	C= (calc)	D	E = C + D
PRAXAIR INC	0.560	33.750	1.8%		13.8%
PRICE (T. ROWE) ASSOCIATES	0.400	32.938	1.3%	15.0%	16.3%
PROCTER & GAMBLE CO	1.210	87.875	1.5%		14.5%
PROGRESSIVE CORP-OHIO	0.260	59.500	0.5%	15.0%	15.5%
PROVIDIAN FINANCIAL CORP	0.200	64.688	0.3%		25.3%
PUBLIC SERVICE ENTRP	2.160	29.000	7.6%	5.0%	12.6%
PULTE CORP	0.160	16.812	1.0%	10.0%	11.0%
QUAKER OATS CO	1.140	53.938	2.2%	10.0%	12.2%
RALSTON PURINA CO	0.400	28.312	1.5%	11.0%	12.5%
RAYTHEON CO -CL B	0.800	18.500	4.5%	10.0%	14.5%
REGIONS FINL CORP	1.000	20.250	5.2%	10.0%	15.2%
RELIANT ENERGY INC	1.500	20.562	7.6%	8.0%	15.6%
REYNOLDS METALS CO	1.400	63.500	2.3%	9.0%	11.3%
RITE AID CORP	0.460	6.875	7.1%	13.0%	20.1%
ROCKWELL INTL CORP	1.020	45.250	2.4%	12.0%	14.4%
ROHM & HAAS CO	0.760	40.250	2.0%	10.0%	12.0%
ROYAL DUTCH PET -NY REG	2.296	52.750	4.6%	10.0%	14.6%
RUSSELL CORP	0.560	13.812	4.3%	12.0%	16.3%
RYDER SYSTEM INC	0.600	18.500	3.4%	12.0%	15.4%
SAFECO CORP	1.480	21.000	7.4%	10.0%	17.4%
SARA LEE CORP	0.540	14.875	3.8%	11.0%	14.8%
SBC COMMUNICATIONS INC	0.975	38.062	2.7%	12.5%	15.2%
SCHERING-PLOUGH	0.500	35.000	1.5%	16.0%	17.5%
SCHLUMBERGER LTD	0.750	73.859	1.1%	20.0%	21.1%
SCHWAB (CHARLES) CORP	0.056	41.875	0.2%	25.0%	25.2%
SCIENTIFIC-ATLANTA INC	0.060	102.688	0.1%	21.0%	21.1%
SEAGRAM CO LTD	0.449	58.750	0.8%	15.0%	15.8%
SEARS ROEBUCK & CO	0.920	27.562	3.5%	10.0%	13.5%
SEMPRA ENERGY	1.560	18.000	8.9%	5.0%	13.9%
SERVICE CORP INTERNATIONAL	0.360	3.688	10.3%	11.0%	21.3%
SHARED MEDICAL SYSTEMS CORP	0.840	38.938	2.4%	20.0%	22.4%
SHERWIN-WILLIAMS CO	0.480	19.125	2.7%	12.0%	14.7%
SIGMA-ALDRICH	0.310	23.750	1.4%	12.0%	13.4%
SLM HLDG CORP	0.640	31.312	2.2%	13.0%	15.2%
SNAP-ON INC	0.920	21.812	4.4%		15.4%
SOUTHERN CO	1.340	22.188	6.2%		12.2%
SOUTHTRUST CORP	0.880	22.938	4.0%		15.0%
SOUTHWEST AIRLINES	0.022	18.438	0.1%		13.6%
SPRINGS INDUSTRIES -CL A	1.320	35.438	3.9%		12.9%
SPRINT FON GROUP	0.500	61.000	0.9%		12.9%
ST PAUL COS	1.040	22.375	4.9%		14.9%
STANLEY WORKS	0.880	23.000	4.0%		15.0%
	0.000	00		11.070	. 5.0 /6

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Source: S&P Compustat Data Base					Market
Source Date: February 29, 2000			Expected	Expected	Required
	Current	Current	Dividend	IBES	Return
S&P Company Name	Dividend	Price	Yield	LT Growth	(Div Yld+Growth)
	A	В	C= (calc)	D	E = C + D
			` ,		
STATE STREET CORP	0.640	72.875	0.9%	14.4%	15.3%
SUMMIT BANCORP	1.320	23.938	5.8%	9.0%	14.8%
SUNOCO INC	1.000	24.688	4.2%	7.5%	11.7%
SUNTRUST BANKS INC	1.380	50.812	2.9%	12.0%	14.9%
SUPERVALU INC	0.540	17.188	3.3%	12.0%	15.3%
SYNOVUS FINANCIAL CP	0.360	16.375	2.4%	14.3%	16.7%
SYSCO CORP	0.400	32.812	1.3%	13.0%	14.3%
TANDY CORP	0.220	38.000	0.6%	18.0%	18.6%
TARGET CORP	0.400	59.000	0.7%	15.0%	15.7%
TEKTRONIX INC	0.480	58.000	0.9%	13.5%	14.4%
TEMPLE-INLAND INC	1.280	51.125	2.6%	7.0%	9.6%
TEXACO INC	1.800	47.438	3.9%	8.0%	11.9%
TEXAS INSTRUMENTS INC	0.170	166.125	0.1%	22.0%	22.1%
TEXAS UTILITIES CO	2.400	32.625	7.6%	6.0%	13.6%
TEXTRON INC	1.300	61.000	2.3%	13.5%	15.8%
THOMAS & BETTS CORP	1.120	22.438	5.3%	13.0%	18.3%
TIME WARNER INC	0.180	85.250	0.2%	12.0%	12.2%
TIMES MIRROR COMPANY -SER A	0.800	51.000	1.7%	11.0%	12.7%
TIMKEN CO	0.720	14.312	5.3%	10.0%	15.3%
TJX COMPANIES INC	0.140	15.938	1.0%	16.5%	17.5%
TORCHMARK CORP	0.360	19.812	1.9%	10.5%	12.4%
TOSCO CORP	0.280	26.750	1.1%	11.0%	12.1%
TRANSOCEAN SEDCO FOREX INC	0.120	39.438	0.3%	16.5%	16.8%
TRIBUNE CO	0.360	38.938	1.0%	13.0%	14.0%
TRW INC	1.320	48.000	2.9%	10.0%	12.9%
TUPPERWARE CORP	0.880	17.188	5.4%	11.0%	16.4%
TYCO INTERNATIONAL LTD	0.050	37.875	0.1%	20.0%	20.1%
U S BANCORP/DE	0.780	18.312	4.5%	12.0%	16.5%
U S WEST INC	2.140	72.625	3.0%	7.0%	10.0%
UNICOM CORP	1.600	37.812	4.4%	7.0%	11.4%
UNILEVER N V -NY SHARES	1.180	45.500	2.7%	10.8%	13.5%
UNION CARBIDE CORP	0.900	53.688	1.8%	10.0%	11.8%
UNION PACIFIC CORP	0.800	38.000	2.2%	10.0%	12.2%
UNION PACIFIC RESOURCES GRP	0.200	8.938	2.4%	10.8%	13.2%
UNION PLANTERS CORP	2.000	27.375	7.6%	7.5%	15.1%
UNITED HEALTHCARE CORP	0.030	51.125	0.1%	15.0%	15.1%
UNITED TECHNOLOGIES CORP	0.800	50.938	1.7%	15.0%	16.7%
UNOCAL CORP	0.800	26.750	3.1%	8.0%	11.1%
UNUMPROVIDENT CORP	0.590	13.375	4.7%	13.0%	17.7%
UST INC	1.680	19.312	9.1%	9.0%	18.1%
USX-MARATHON GROUP	0.840	21.625	4.1%	13.0%	17.1%
USX-U S STEEL GROUP	1.000	21.875	4.8%	8.0%	12.8%

### Discounted Cash Flow Analysis Standard & Poor's 500 Companies

Source: S&P Compustat Data Base Source Date: February 29, 2000			Expected	Expected	Market Required
Source Date. 1 ebitiary 29, 2000	Current	Current	Dividend	IBES	Return
S&P Company Name	<u>Dividend</u>	Price	Yield	LT Growth	
<u>oar company riamo</u>	A	<u>- нос</u> В	C= (calc)	D	E = C + D
			_ (,		
VF CORP	0.880	24.688	3.7%	10.0%	13.7%
VULCAN MATERIALS CO	0.780	40.000	2.1%	12.0%	14.1%
WACHOVIA CORP	2.160	57.188	4.0%	11.0%	15.0%
WAL-MART STORES	0.200	48.875	0.4%	15.0%	15.4%
WALGREEN CO	0.135	25.812	0.6%	16.0%	16.6%
WARNER-LAMBERT CO	0.800	85.562	1.0%	18.0%	19.0%
WASHINGTON MUTUAL INC	1.040	22.125	5.0%	13.0%	18.0%
WASTE MANAGEMENT INC	0.040	15.000	0.3%	12.0%	12.3%
WELLS FARGO & CO	0.800	33.062	2.6%	13.0%	15.6%
WENDY'S INTERNATIONAL INC	0.240	15.750	1.6%	15.0%	16.6%
WESTVACO CORP	0.880	27.289	3.3%	7.0%	10.3%
WEYERHAEUSER CO	1.600	51.312	3.2%	8.0%	11.2%
WHIRLPOOL CORP	1.360	54.312	2.6%	10.0%	12.6%
WILLAMETTE INDUSTRIES	0.720	33.875	2.2%	10.0%	12.2%
WILLIAMS COS INC	0.600	41.812	1.5%	15.0%	16.5%
WINN-DIXIE STORES INC	1.020	16.125	6.6%	10.0%	16.6%
WORTHINGTON INDUSTRIES	0.600	13.250	4.9%	14.5%	19.4%
WRIGLEY (WM) JR CO	1.400	67.625	2.2%	11.0%	13.2%
XEROX CORP	0.800	21.750	3.9%	13.0%	16.9%
YOUNG & RUBICAM INC	0.100	50.500	0.2%	20.0%	20.2%
WEIGHTED AVERAGE REQUIRED RETUR	N		1.7%	14.1%	15.8%

### Notes:

- 1. 102 companies were deleted from the sample. 96 do not pay dividends and 6 lack IBES long term growth rates.
- 2. Expected dividend yield is estimated using annual dividend increased by one half the IBES growth rate (dividend yield = annual dividend x (1 + .5 x) growth rate) / price).
- 3. The S&P 500 is a market weighted index and the market required returns for individual companies are weighted by market value.

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### Standard & Poor's 500 Companies **Capital Asset Pricing Model Analysis**

(Expected Return on the Market Model)

The Expected Return on the Market (Rm) is equal to the risk free rate of interest

Risk Free Rate	es the Market Risk P	•				,		Refer to Note
Inter	mediate Term (3, 5	5, and 10 Y	r Treasu	ry N	ote Yie	lds)	6.57%	(1)
Long	Term (30 Year Tre	asury Bonc	l Yields)	)			6.18%	(1)
Market Risk Pre	emium							
Inter	mediate Term - Av	g of Ex Pos	st and E	x Ar	nte		8.9%	
	Ex Post (lbbd Ex Ante (S&F			e R	ate)	8.5% 9.2%		(2) (3)
Long	Term - Avg of Ex I	Post and Ex	(Ante				8.9%	
	Ex Post (lbbo Ex Ante (S&l		*	ee R	ate)	8.1% 9.6%		(2) (4)
<u>Beta</u>								
By de	efinition, the Beta	of the mar	ket por	lfolic	o is	1.0		
CAPM Expected	d Return on the Ma	arket						
	mediate Term Term	6.57% 6.18%	+		1.0 1.0	(8.9%) = (8.9%) =	15.5% 15.1%	
	Д	verage					15.3%	
Notes:	ral Reserve Statistic	al Release (	H15 Ren	orts)	For the	Period 2/15/00	) thru 2/29/1	00

- 2. Market Results 1926-1999 from Ibbotson Associates (Stocks, Bonds, Bills & Inflation 2000 Yearbook)

3.	15.80%	(Exhibit PCC-07)	-	6.57%	=	9.2%
4.	15.80%	(Exhibit PCC-07)	-	6.18%	=	9.6%

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	Equity Risk	r Premium Test				
			Notes			
Ex-Post Ed	quity Risk Premium		(1)			
1.	Common Stock Total Returns			13.3%		
	Corporate Bonds Total Returns	S		5.9%		
	Ex-Post Equity Risk Premium	(Line 1 - Line 2)		7.4%		
Ex-Ante E	quity Risk Premium					
4.	DCF Estimate for the S&P 500 I	ndex	(2)	15.8%		
	Cost of Single A LT Debt		(3)	8.3%		
6.	~	(Line 4 - Line 5)	(0)	7.5%		
Cost of Si	ngle A LT Debt		(3)	8.3%		
Adiustme	nt to Equity Risk Premiums for R	isk/Beta				
, .q.,						
7.	Beta Range from CAPM Estimo	ate	(4)	0.78	to	0.80
8.	Ex-Post Equity Risk Premium	ERP	x	Beta	=	Adj-ERP
9.	(Risk-adjusted)	7.4%	X	0.78	=	5.8%
10.		7.4%	Х	0.80	=	5.9%
11.	Ex-Ante Equity Risk Premium	ERP	x	Beta	=	Adj-ERP
12.	(Risk-adjusted)	7.5%	Х	0.78	=	5.9%
13.		7.5%	х	0.80	=	6.0%
Calculation	on of the Return Range for the E	quity Risk Premium Test				
		Cost				
		of		Adjusted		
		Single A		Risk		
	Equity Risk Premium Range	= LT Debt	+	Premium		
14.		8.3%	+	5.8%	=	14.1%
15.		8.3%	+	6.0%	= 1	14.3%
Notes:		-1999 from lbbotson Ass & Inflation 2000 Yearbo				

3. Average Seasoned Single A Public Utility Bond Yield from Moody's February 2000

0.80

0.78

2. Ex-Ante DCF Estimate from Exhibit PCC-7

Comparables Avg

4. Beta Range from CAPM (Exhibits PCC-5, PCC-6) Telephone Cos Avg

### **BEFORE THE ARIZONA CORPORATION COMMISSION**

U S W COLO HEAR OF TH COMF TO FIX RETU	E MATTER OF THE APPLICATION OF JEST COMMUNICATIONS, INC., A PRADO CORPORATION, FOR A ING TO DETERMINE THE EARNINGS HE COMPANY, THE FAIR VALUE OF THE PANY FOR RATEMAKING PURPOSES, INC. A JUST AND REASONABLE RATE OF RN THEREON, AND TO APPPROVE RATE DULES DESIGNED TO DEVELOP SUCH RN.	) ) ) ) DOCKET NO. T-1051B-99-105 ) ) !
STAT	E OF WASHINGTON ) : ss AFFIDAV	T OF PETER C. CUMMINGS
COUN	ITY OF KING )	TOTTETER O. COMMINGO
	Peter C. Cummings, of lawful age being firs	t duly sworn, depose and states:
1.	My name is Peter C. Cummings. I am Direct U S WEST Communications in Seattle, Was	
2.	Attached hereto and made a part hereof for of pages 1 through 6, and my exhibits number	
3.	I hereby swear and affirm that my answers questions therein propounded are true and belief.  Per	
SUBS	CRIBED AND SWORN to before me this _ <	<u> つっぱn</u> day of
Cup	<u>ril</u> , 2000.	
ETT	E FOO!	inette Firting
1000 E		blic residing at /ashington.

Continues:

### BEFORE THE ARIZONA CORPORATION COMMISSION OF COMMI

IN THE MATTER OF THE APPLICATION OF U S WEST COMMUNICATIONS, INC., A COLORADO CORPORATION, FOR A HEARING TO DETERMINE THE EARNINGS OF THE COMPANY, THE FAIR VALUE OF THE COMPANY FOR RATEMAKING PURPOSES, TO FIX A JUST AND REASONABLE RATE OF RETURN THEREON, AND TO APPPROVE RATE SCHEDULES DESIGNED TO DEVELOP SUCH RETURN.

MAY 0 3 2000

**DOCKET NO. T-1051B-99-105** 

SUPPLEMENTAL DIRECT TESTIMONY

**OF** 

ANN KOEHLER-CHRISTENSEN

**US WEST COMMUNICATIONS** 

May 3, 2000

### TESTIMONY OF ANN KOEHLER-CHRISTENSEN INDEX OF TESTIMONY

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Arizona Corporation Commission Docket No. T-1051B-99-105 U S WEST Communications Suppl. Testimony of Ann Koehler-Christensen May 3, 2000

### **EXECUTIVE SUMMARY**

### 1. Current Responsibilities:

My name is Ann Koehler-Christensen. I am employed by U S WEST

Communications as a manager in the Regulatory Finance organization. My business address is 1600 7<sup>th</sup> Avenue, Room 3008, Seattle, Washington 98191.

I am responsible for the contractual relationships between U S WEST Communications and U S WEST Dex. This involves all issues including Yellow Pages imputation.

### 2. Purpose of Testimony:

The purpose of my testimony is to demonstrate the value of the services provided to U S WEST Communications by U S WEST Dex and the current amount of fees booked to Account 5230, Directory Revenue in this test period. DEX continues to provide directory services to U S WEST at no cost to U S WEST or to U S WEST customers. In fact, the value of the services DEX provided to U S WEST in this test period exceeded the value provided in the 1984 test year referenced in the Settlement Agreement. I will also explain the reason fees paid by DEX have been reduced. In large measure, the fees have been reduced because U S WEST provides commensurately less to DEX than it has in the past. I demonstrate that the current

i

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May 3, 2000

booked fees and the value of services U S WEST receives from DEX are already reflected in the financial filings included in this rate case. Consequently, there is no need for any further adjustment to U S WEST's revenue requirement to reflect additional directory imputation.

### 3. Summary of Testimony:

DEX incurs all the costs of publishing and delivering directories to U S WEST customers. At the time of the Settlement Agreement DEX incurred these costs and DEX continues to incur these costs. The cost to DEX to publish and deliver directories has increased over the years from approximately \$3.3 million to \$13 million. However, the cost to U S WEST and to U S WEST customers was low in 1984 and is zero today.

The fees have decreased because the services provided under the Publishing Agreement are fewer and have less value today than previously. Both court decisions and federal legislation have contributed to the availability of listings and the ability of any publisher to publish directories in any market. This is a change in the publishing environment has drastically lowered the market value of publishing rights. U S WEST charges DEX market price for its listings and the Publishing Agreement between U S WEST and DEX reflects market conditions and values, since DEX has the same agreements with competitive Local Exchange Carriers as well as with independent Local Exchange Carriers.

ii

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U S WEST is receiving fees at a fair market rate for the full value of the services U S WEST provides to DEX. DEX continues to provide both White and Yellow Pages directories ("the services") at no cost to U S WEST or to U S WEST customers.

### 1 **IDENTIFICATION OF WITNESS** 2 3 Q. PLEASE STATE YOUR NAME, OCCUPATION AND BUSINESS ADDRESS. 4 5 Α. My name is Ann Koehler-Christensen. I am employed by USWEST 6 Communications as a manager in the Regulatory Finance organization. business address is 1600 7<sup>th</sup> Avenue, Room 3008, Seattle, Washington 98191. 7 8 9 WHY ARE YOU FILING SUPPLEMENTAL TESTIMONY? 10 11. I am filing supplemental testimony in order to update the test year information included A. 12 in my January 8, 1999 testimony. Since this information is scattered throughout my 13 testimony, I am replacing my original testimony entirely with this supplemental 14 testimony. 15 BRIEFLY OUTLINE YOUR EMPLOYMENT BACKGROUND. 16 17 My employment and educational background are shown on the Witness 18

Qualification Statement, Exhibit AKC-1.

19

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### **PURPOSE OF TESTIMONY**

### 3 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

A. The purpose of my testimony is to demonstrate the value of the services provided to U S WEST Communications ("U S WEST") by U S WEST Dex ("DEX") and the current amount of fees booked to Account 5230, Directory Revenue in this test period. DEX continues to provide directory services to U S WEST at no cost to U S WEST or to U S WEST customers. In fact, the value of the services DEX provided to U S WEST in this test period exceeded the value provided in the 1984 test year referenced in the Settlement Agreement. I will also explain the reason fees paid by DEX have been reduced. In large measure, the fees have been reduced because U S WEST provides commensurately less to DEX than it has in the past. I demonstrate that the current booked fees and the value of services U S WEST receives from DEX are already reflected in the financial filings included in this rate case. Consequently, there is no need for any further adjustment to U S WEST's revenue requirement to reflect additional directory imputation.

Arizona Corporation Commission Docket No. T-1051B-99-105 U S WEST Communications Suppl. Testimony of Ann Koehler-Christensen Page 3, May 3, 2000

1		SERVICES
2		
3	Q.	WHAT SERVICES DID DEX PROVIDE UNDER THE TERMS OF THE
4		PUBLISHING AGREEMENT IN 1984?
5		
6	A.	Under the terms of the Publishing Agreement in effect in 1984, DEX was
7		obligated to publish and deliver White Pages directories to U S WEST customer
8		at no charge to U S WEST or it's customers.
9		
10	Q.	ARE THESE THE SAME SERVICES PROVIDED IN THE CURRENT
11		PUBLISHING AGREEMENT?
12		
13	Α.	Yes. However, the current agreement also obligates DEX to deliver Yellow
14		Pages directories at no charge to U S WEST or it's customers and also to offer
15		complimentary Yellow Pages listings to each of U S WEST's business
16		customers.
17		
18	Q.	WHAT IS THE APPROXIMATE VALUE OF THE SERVICES PROVIDED BY
19		DEX TO U S WEST?
20		

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ļ	Α.	The cost of publishing the white Pages and of delivering the white and Yellow
2		Pages to U S WEST customers between in 1999 was approximately \$12.8
3		million.
4		
5	Q.	WHO INCURRED THESE COSTS DURING THE TEST YEAR?
6		
7	Α.,	All the costs were incurred by DEX and were not passed on to U S WEST.
.8		
9	Q.	HOW IS THE BENEFIT REFLECTED IN U S WEST'S FINANCIAL
10		STATEMENTS?
11		
12	Α.	If DEX had not published and distributed Arizona directories to U S WEST's
13		customers under the terms of the Publishing Agreement, U S WEST would have
14		had to incur these costs. U S WEST would have incurred an additional \$12.8
15		million in order to meet this obligation. This means that not only would
16		U S WEST's expenses have been \$12.8 million higher, the revenue requirement
17		would have been approximately \$12.8 million higher as well.
18		
19	Q.	HOW DID YOU DETERMINE DEX'S COST OF PUBLISHING AND
20		DELIVERING ARIZONA DIRECTORIES?
21		

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1 A. First, I obtained manufacturing (paper and printing) and distribution (delivery)
2 expense for each Arizona directory from DEX for the 1999 test period.

3

6

18

19

20

Q. WERE DEX'S TOTAL MANUFACTURING AND DISTRIBUTION COSTS \$12.8
 MILLION FOR THE TEST PERIOD?

7 Α. No, DEX's Arizona manufacturing and distribution costs for the test period were 8 \$40,267,486. To arrive at the \$12.8 million, I went through several steps. First I 9 excluded nine Arizona directories published by DEX that are not published on 10 behalf of USWC and are not covered by the publishing agreement. Of DEX's 11 remaining Arizona directories published in the test period, two were separately 12 bound White Pages books and three were separately bound Yellow Pages 13 books, and twelve were co-bound White and Yellow Pages directories. I 14 obtained a count of the number of white pages and the number of yellow pages 15 in each of these directories and I allocated the manufacturing expenses for each 16 based on the proportion of white and yellow pages to arrive at White Pages 17 manufacturing expense.

### Q. DID YOU PERFORM ANY OTHER ALLOCATIONS?

21 A. Yes, because DEX directories include listings of customers of competitive and independent Local Exchange Carriers as well as of U S WEST customers, I

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1 further allocated the manufacturing costs as well as the distribution costs. I 2 obtained the number of U S WEST listings and the number of non-U S WEST 3 listings included in each of DEX's Arizona directories. I allocated the White 4 Pages manufacturing costs to U S WEST based on the percentage of 5 U S WEST customers published in each directory. I allocated the distribution 6 costs in the same way. After performing these two allocations, I arrived at \$12.6 7 million for White Pages manufacturing and White and Yellow Pages distribution 8 costs for U S WEST customers. 9 10 WHAT OTHER COSTS DID YOU INCLUDE? Q. 11 12 Α. Manufacturing expense includes only printing and paper costs. DEX has a work 13 group responsible for preparing the White Pages for printing. DEX's costs for 14 this work group were \$970,000. Arizona's portion of this is approximately 15 \$200,000. 16 17 Q. HOW DOES THE VALUE OF THE SERVICES PROVIDED BY DEX TO U S WEST IN THIS TEST YEAR COMPARE TO THE VALUE OF THE 18 **SERVICES PROVIDED IN 1984?** 19 20 21 Α. I estimate the 1984 value at approximately \$2.4 million. The level of detail is no 22 longer available to allow me to restate the 1984 expenses as I have done for the

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test year. I've estimated the 1984 expenses by taking the same percentage of 1984 manufacturing and distribution expense as the \$12.6 million is of the test year manufacturing and distribution expense. In 1984, as now, the cost to U S WEST was zero for manufacturing and distribution, although U S WEST did incur the costs to prepare camera-ready White Pages for printing. All the costs are now incurred by DEX and these costs have increased over fourfold. In this way, both U S WEST and U S WEST's customers receive the full value of high quality DEX directories without incurring any expense or risk. Under the terms of the Publishing Agreement, DEX continues to provide U S WEST customers with directories and DEX incurs all the risk of increased costs.

11

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12 FEES

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14

15

Q. THE DIRECTORY SETTLEMENT AGREEMENT USED THE 1984 RATE CASE
DIRECTORY AMOUNT AS ITS BASIS. PLEASE EXPLAIN THE SOURCES OF
THE \$43 MILLION IN THAT CASE.

17

16

18 A. The \$43 million in the 1984 test year consisted of \$49.2 million of booked

19 directory revenue <sup>1</sup> less \$11.1 million of booked directory expense <sup>2</sup> plus a \$4.9

20 million pro forma adjustment. The sum of these three equals \$43 million.

<sup>&</sup>lt;sup>1</sup> Booked to Account 523, Directory Revenue. The equivalent account is now Account 5230.

<sup>&</sup>lt;sup>2</sup> Booked to Account 630, Directory Expense. There is no equivalent account today.

4	
ı	
_	

### 2 Q. PLEASE DESCRIBE THE VARIOUS SOURCES OF THESE REVENUES.

3

6

7

8

9

10

4 A. The \$49.2 million of directory revenues on U S WEST's 1984 Arizona books included revenues from several sources. These were:

\$28.3 million of the revenues from Publishing Fees paid by DEX

- \$16 million of Yellow Pages advertising revenues sold to advertisers in 1983, but paid to U S WEST in 1984
- \$4.9 million in revenues that were received from U S WEST customers for non-standard listings as well as from U S WEST listings sold to other publishers.

11 12 13

14

15

16

17

18

The \$11.1 million in directory expenses on the books related to the 1983 directories for which U S WEST booked \$16 million in revenues. In other words, there was a net revenue impact of \$5 million that occurred in the transition year of 1984 that did not continue past that year. Finally, there was a pro forma adjustment made to reflect the increase in the Publishing Fees for 1985 that had already been negotiated.

19

20

21

## Q. HOW DO THESE AMOUNTS COMPARE TO REVENUES RECEIVED IN THE TEST YEAR USED IN THIS CASE?

22

A. The total Account 5230, Directory Revenue, included in this test year is \$18,652,343. There are no Yellow Pages revenues or expenses on U S WEST's books. 1984 was the last year that Yellow Pages advertising and Yellow Pages expense appeared on U S WEST's books. After the 1984 transition year, all

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Yellow Pages revenues and expenses, along with any risk, were incurred by DEX rather than by U S WEST. Regulated revenues paid by DEX have gone from \$28.3 million in 1984 to \$855,753 in the current test period. The revenues on U S WEST's books from non-standard listings and from listings sold to other directory publishers have grown from \$4.9 million in 1984 to nearly \$18 million in the current test year.

## Q. WILL YOU PLEASE EXPLAIN THE REVENUES U S WEST RECEIVES FROM NON-STANDARD LISTINGS AND FROM OTHER DIRECTORY PUBLISHERS?

Α.

U S WEST sells non-standard White Pages listings to customers. These include listings such as additional listings, e-mail address listings, and privacy listings.

U S WEST receives the revenue for these listings and DEX incurs the expense of publishing the extra listings and any special handling required of privacy listings, for example. U S WEST also makes its subscriber listings available to all other publishers in addition to DEX. The revenues from the licensing of U S WEST's subscriber listings are included in these directory revenues and the benefit derived from this revenue is already reflected on U S WEST's books.

## Q. WHAT DID U S WEST PROVIDE TO DEX IN RETURN FOR THE \$28.2 MILLION IN PUBLISHING FEES IN 1984?

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1	A.	In 1984, the following services were provided by U.S.WEST to DEX under the
2		Publishing Agreement:
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25		<ul> <li>Negotiation of Yellow Pages heading information for DEX</li> <li>Access to U S WEST's Listings database</li> <li>Advanced List Service orders taken and provided to DEX to meet DEX directory closes</li> <li>Negotiation of directory delivery quantities</li> <li>Maintenance and provision of delivery routing information</li> <li>White Pages composition services and delivery of camera-ready White Pages to DEX</li> <li>Community Service Pages composition services and delivery of camera-ready pages to DEX</li> <li>Government Pages composition services and delivery of camera-ready pages to DEX</li> <li>Generic Phone Service Pages composition services and delivery of camera-ready pages to DEX</li> <li>Premium Phone Service Pages composition services and delivery of camera-ready pages to DEX</li> <li>Foreign Directory ordering services</li> <li>Use of Mountain Bell's name on Dex's directory covers (now U S WEST)</li> <li>Placement of DEX directories in U S WEST's Public Pay Stations</li> <li>Subscriber Lists</li> <li>U S WEST granted DEX the right to publish directories for U S WEST</li> </ul>
26	Q.	DOES U S WEST CONTINUE TO PROVIDE ALL THESE SERVICES TO DEX?
27		
28	Α.	No, U S WEST only provides the last three items on the preceding list for DEX.
29 30 31 32		<ul> <li>Placement of DEX directories in U S WEST's Public Pay Stations</li> <li>Subscriber Lists</li> <li>U S WEST granted DEX the right to publish directories for U S WEST</li> </ul>
33	Q.	PLEASE EXPLAIN THE CURRENT PUBLIC PAY STATIONS ARRANGEMENT.
34		

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1	A.	Public Pay Stations were deregulated in 1997. As a result, all revenues and
2		expenses associated with Public Pay Stations have been removed from
3		regulated tariffs. This removal of Public Pay Station is not related to the directory
4		publishing agreements between U S WEST and DEX, but is simply another
5		change that was necessary as a result of legal, regulatory and competitive
6		changes in this industry.
7		
8	Q.	WHAT IS THE VALUE OF THE SUBSCRIBER LISTS U S WEST PROVIDES
9		TO DEX?
10		
11	A.	DEX pays U S WEST market value for the subscriber lists. The test year
12		revenues from DEX for Arizona subscriber lists are \$855,750.
13		
14	Q.	HOW HAS A MARKET VALUE BEEN ESTABLISHED?
15		
16	A.	U S WEST has the same listings agreements with DEX as it has with
17		approximately fifty publishers throughout its fourteen-state territory. U S WEST
18		licenses Arizona listings to four independent publishers as well as to DEX.
19		U S WEST charges all publishers the same licensing fees and provides the lists
20		on the same terms and conditions.
21		

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### Q. DOES DEX CONTINUE TO PAY U S WEST PUBLISHING FEES FOR THE

### RIGHT TO PUBLISH DIRECTORIES FOR U S WEST?

3

1

2

A. No, DEX compensates U S WEST by providing high quality White and Yellow
 Pages directories to U S WEST customers at no cost. DEX does not pay any
 additional fees to U S WEST for the right to publish directories that include
 U S WEST subscriber listings.

8

### 9 Q. PLEASE EXPLAIN WHY DEX NO LONGER PAYS U S WEST.

10

11 A. U S WEST can not grant exclusive publishing rights to any publisher because all 12 publishers have the right to obtain and publish the listings of any local exchange 13 carrier ("LEC"). In 1984, U S WEST was under no obligation to make its 14 subscriber lists available to other publishers. In 1991, however, the Feist Decision <sup>3</sup> established that neither White nor Yellow Pages listings, nor Yellow 15 16 Pages Headings could be copyrighted. This decision effected the publishing 17 business in two ways. First, it meant that any publisher could obtain listings in 18 order to publish directories, if not directly from the LEC, then by copying the 19 listings from directories published by another publisher. This also had the effect 20 of lowering the value of listings licensed from LECs. The Federal Telecom Act of 21 1996 now requires LECs to make their listings available to all publishers desiring

<sup>&</sup>lt;sup>3</sup> Feist Publications, Inc. v. Rural Tel. Serv. Co., <u>499 U.S. 340</u> (1991)

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1		access to the listings. These decisions have led to lower prices associated with
2		the sale or licensing of subscriber listings and the right to publish directories.
3		
4	Q.	IS THERE ANY EVIDENCE OF A MARKET PRICE FOR THE RIGHT TO
5		PUBLISH DIRECTORIES?
6		
7	A.	Yes, the market price is zero. DEX currently has publishing agreements with
8		thirteen competitive LECs and approximately one hundred independent LECs.
9		Seven of these thirteen competitive LECs are certified to provide service in
10		Arizona and eight of the independent LECs are Arizona LECs. These publishing
11		agreements are virtually the same as the publishing agreement between DEX
12		and U S WEST. In other words, DEX does not pay publishing fees.
13		
14	Q.	DO OTHER PUBLISHERS PAY U S WEST FOR THE RIGHT TO PUBLISH
15		U S WEST'S SUBSCRIBER LISTINGS?
16		
17	A.	No, U S WEST licenses its subscriber listings to fifty independent publishers.
18		These publishers pay U S WEST the same licensing fees as DEX pays
19		U S WEST for the subscriber lists, but they do not pay U S WEST publishing
20		fees. Four independent publishers license Arizona listings, although at least
21		eight publishers include U S WEST subscriber listings in directories they publish

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in Arizona. Basically, DEX does not pay publishing fees to publish their directories and other publishers do not pay publishing fees to U S WEST.

3

# 4 Q. DOES DEX PLACE U S WEST'S NAME ON THE FRONT OF ITS DIRECTORY 5 COVERS?

6

A. Although DEX is under no obligation to place U S WEST's name on their
directory covers, DEX has a relatively new policy to include on their covers the
names of up to five LECs <sup>4</sup> with listings in the directory. U S WEST is one of the
top five LECs for a majority of DEX directories.

11

### Q. WHY DID DEX INSTITUTE THIS NEW POLICY?

13

12

14 A. Since mid-1988 DEX's policy has been to place only their own name on the 15 covers of their directories. With the advent of local exchange competition. 16 several competitive LECs attempted to have DEX include their names on the 17 directory covers. When DEX declined, these LECs turned to regulators. The 18 Montana Commission ordered DEX to place the names of local exchange 19 carriers on the covers of their directories. To my knowledge, at least one other 20 state commission had issued a similar order that was under appeal. About the 21 same time, DEX was also negotiating publishing agreements with several

<sup>&</sup>lt;sup>4</sup> DEX includes up to the top five local exchange carriers that have publishing agreements with DEX. The top five are selected by directory on the basis of the percentage of primary listings appearing in the directory.

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different competitive LECs. DEX revised their policy and committed to printing 1 2 the names of up to five LECs on their directory covers. 3 IS THERE VALUE TO DEX TO PLACE THE NAMES OF SEVERAL LOCAL 4 Q. **EXCHANGE CARRIERS ON THEIR COVERS?** 5 6 7 A. I suppose a case could be made that there is some value to DEX, but I believe a stronger case can be made that the value is greater for the LECs, including 8 9 U S WEST, than it is to DEX. 10 IF DEX ONLY RECENTLY STARTED INCLUDING LEC NAMES ON THEIR 11 Q. COVERS. WHAT DID DEX DO PREVIOUSLY? 12 13 From 1984 through mid-1988, DEX published their Arizona directories with 14 A. Mountain Bell's name on the cover. US WEST DIRECT (now DEX) was created 15 in 1984 and their name was new and an unknown. The three telephone 16 companies, Mountain Bell, Northwestern Bell and Pacific Northwest Bell, had 17 name recognition. Although at divestiture these three companies combined to 18 make up the new U S WEST RBOC, they retained their individual names and 19 20 continued to do business with their established names and reputations. In this way, DEX was able to capitalize on both the name recognition and the business 21

relationship that Mountain Bell had had with its Yellow Pages advertisers.

22

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Exhibit AKC-2 is a copy of a 1985 Phoenix Metro directory cover to illustrate the cover appearance between 1984 and mid-1988.

In mid-1988 DEX made the decision to publish its directories without Mountain Bell's name on the cover. By 1988, however, the U S WEST DIRECT name was well known and the publisher had established its own relationship with advertisers. Mountain Bell was still doing business as Mountain Bell, not U S WEST, however the directories were published with only the U S WEST DIRECT name on the cover. The Bell logo still appeared on the covers, but it should be understood that the Bell logo was owned by the parent company, U S WEST, Inc., not by Mountain Bell, nor the other two telephone companies. This style directory cover was used by DEX from mid-1988 into early 1997. Exhibit AKC-3 is a copy of a 1997 Prescott directory cover in this style.

In the fall of 1996, U S WEST DIRECT became U S WEST DEX. The name U S WEST DEX and it's new logo, the "your directory expert" detective with the magnifying glass were first used on the directory covers starting in 1997. At that time the Bell logo was dropped. In 1998 DEX began including LEC names on the cover in many locations, as I previously described. Exhibit AKC-4 is a copy of a current East Valley directory cover.

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1	Q.	SHOULD DEX COMPENSATE U S WEST FOR ITS U S WEST NAME
2		ASSOCIATION?
3		
4	A.	No, DEX has established its own name recognition and no longer relies on its
5		former or current relationship with U S WEST. This becomes apparent by
6		viewing the changes in the cover formats from 1984 -1988 (AKC-2) to 1988 -
7		1997 (AKC-3) to 1998, the current cover format (AKC-4).
8		
9	Q.	WHAT ABOUT THE FACT THAT DEX HAS U S WEST IN ITS NAME?
10		
11	Α.	DEX has as much right and ownership to the U S WEST part of their name as
12		U S WEST Communications does. Over the last fifteen year, in fact, DEX has
13		contributed greatly to the name recognition of U S WEST. There is no need for
14		DEX to compensate U S WEST for a name that belongs to both companies as
15		well as to other U S WEST companies.
16		
17	Q.	PLEASE SUMMARIZE WHY THE FEES PAID BY DEX ARE LOWER NOW
18		THAN THEY WERE IN 1984.
19		
20	Α.	Fees paid by DEX are lower now than they were in 1984 for two reasons. First,
21		DEX receives fewer services from U S WEST under the current publishing
22		agreement than in 1984, so the fees have been reduced. Second, changes in

Arizona Corporation Commission Docket No. T-1051B-99-105 U S WEST Communications Suppl. Testimony of Ann Koehler-Christensen Page 18, May 3, 2000

		•
2		U S WEST under the Publishing Agreement.
3		
4	Q.	DOES U S WEST RECEIVE FULL VALUE IN FEES FOR THE SERVICES
5		PROVIDED UNDER PUBLISHING AGREEMENTS TODAY?
6		
7	A.	Yes. DEX provides the same quality White and Yellow Pages directories to
8		U S WEST's customers at no cost to U S WEST or its customers under the
9		terms of a publishing agreement that is virtually the same as DEX has with many
10		competitive and independent LECs. DEX pays U S WEST market rates for
11		subscriber listings, as do many independent directory publishers. Mr. Redding
12		has reflected all the fees and the benefit of the cost savings in the financials filed
13		in this case.
14		
15		CONCLUSION
16		
17	Q.	WHO INCURS THE COSTS OF PUBLISHING AND DELIVERING
18		DIRECTORIES TO U S WEST CUSTOMERS?
19		
20	A.	DEX incurs all the costs of publishing and delivering directories to U S WEST
21		customers. At the time of the Settlement Agreement DEX incurred these costs
22		and DEX continues to incur these costs. The cost to DEX to publish and deliver

Arizona Corporation Commission Docket No. T-1051B-99-105 U S WEST Communications Suppl. Testimony of Ann Koehler-Christensen Page 19, May 3, 2000

directories has increased over the years from approximately \$2.5 million to \$13 million. However, the cost to U S WEST and to U S WEST customers was low in 1984 and is zero today.

### Q. WHY HAVE THE FEES PAID BY DEX TO U S WEST DECREASED?

A. The fees have decreased because the services provided under the Publishing Agreement are fewer and have less value today than previously. Both court decisions and federal legislation have contributed to the availability of listings and the ability of any publisher to publish directories in any market. This change in the publishing environment has drastically lowered the market value of publishing rights. U S WEST charges DEX market price for its listings and the Publishing Agreement between U S WEST and DEX reflects market conditions and values, since DEX has the same agreements with competitive Local Exchange Carriers as well as with independent Local Exchange Carriers.

### Q. IS ANY IMPUTATION APPROPRIATE?

19 A. No. U S WEST is receiving fees at a fair market rate for the full value of the
20 services U S WEST provides to DEX. DEX continues to provide both White and
21 Yellow Pages directories ("the services") at no cost to U S WEST or to
22 U S WEST customers.

Arizona Corporation Commission Docket No. T-1051B-99-105 U S WEST Communications Suppl. Testimony of Ann Koehler-Christensen Page 20, May 3, 2000

1

2 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

3

4 A. Yes, it does.

### **BEFORE THE ARIZONA CORPORATION COMMISSION**

IN THE MATTER OF THE APPLICATION OF	
U S WEST COMMUNICATIONS, INC., A	· )
COLORADO CORPORATION, FOR A	)
HEARING TO DETERMINE THE EARNINGS	)
OF THE COMPANY, THE FAIR VALUE OF THE	) DOCKET NO. T-1051B-99-105
COMPANY FOR RATEMAKING PURPOSES,	)
TO FIX A JUST AND REASONABLE RATE OF	)
RETURN THEREON, AND TO APPPROVE RATE	)
SCHEDULES DESIGNED TO DEVELOP SUCH	)
RETURN.	)

### **EXHIBITS**

OF

ANN KOEHLER-CHRISTENSEN

**US WEST COMMUNICATIONS** 

May 3, 2000

### WITNESS QUALIFICATION STATEMENT

NAME:

Ann Koehler-Christensen

**EMPLOYED BY:** 

U S WEST Communications, Inc.

ADDRESS:

1600 7th Avenue, Room 3008, Seattle, Washington 98191

**EDUCATION:** 

Bachelor of Arts degree in German, University of Puget Sound, 1969

Master of Arts degree in Economics, New Mexico State University, 1994

### WORK EXPERIENCE:

1970-1972

Service Representative, Business Office

1972-1988 1988-1996 Various Management positions in Accounting Manager-Affiliated Interests, Public Policy

1996-Current

Manager-Regulatory Finance, Finance

PRINCIPLE DUTIES: Responsible for the analysis of information and contractual agreements concerning U S WEST's affiliated relationship with U S WEST Dex, Inc., including the imputation of revenues by regulatory commissions.

WITNESS EXPERIENCE:

Issue: Directory

#### Arizona

Docket E-1051-93-183, Rebuttal Testimony filed 4/22/94 Docket T-1051B-99-105, Direct Testimony filed 1/8/99

Idaho

Docket USW-S-96-5, Rebuttal Testimony filed 1/23/97

### Iowa

Docket No. RPU-93-9, Direct Testimony filed 12/6/93 Docket No. RPU-93-9, Surrebuttal Testimony filed 2/23/94

#### Montana

Docket No. 90.12.86, Direct Testimony filed 1/15/92

### **New Mexico**

Docket No. 92-227-TC, Rebuttal Testimony filed 1/26/93

### Oregon

Docket UT 125, Direct Testimony filed 12/18/95 Docket UT 125, Reply Testimony filed 10/7/96

Arizona Corporation Commission U S WEST Communications – AKC-1 Exhibits of Ann Koehler-Christensen Page 2 of 2, May 3, 2000

#### Utah

Docket 94-049-08, Direct Testimony filed 3/10/95 Docket 94-049-08, Rebuttal Testimony filed 8/25/95 Docket 97-049-08, Direct Testimony filed 3/18/97 Docket 97-049-08, Rebuttal Testimony filed 8/22/97 Docket 97-049-08, Surrebuttal Testimony filed 9/3/97

#### Washington

Docket UT-950200, Rebuttal Testimony filed 10/3/95 Docket UT-980948, Direct Testimony filed 10/16/98 Docket UT-980948, Rebuttal Testimony filed 4/23/99 Docket UT-980948, Rejoinder Testimony filed 7/16/99

Arizona Corporation Commission U S WEST Communications - AKC-2 Exhibits of Ann Koehler-Christensen Page 1 of 1, May 3, 2000

Metro

hoenix

Area Code 602







Arizona Corporation Commission U S WEST Communications – AKC-2 Exhibits of Ann Koehler-Christensen Page 1 of 1, January 8, 1999

Metro

, hoenix

Area Code 602







Arizona Corporation Commission U S WEST Communications - AKC-3 Exhibits of Ann Koehler-Christensen Page 1 of 1, May 3, 2000

Jdad • Chino Valley
ewey • Humboldt • Mayer

rescott Valley

\rea Code 520 \ril 1997/1998



New

Find complete local and national listings

http://yp.uswest.com

The White & Yellow Pages

COMMUNITY PAGES

Events, Maps & ZIP Codes

GOVERNMENT PAGES

City, County, State & Federal Agencies INDEX

Following The Yellow Pages

MONEY-SAVING COUPONS

At the Back of the Book

Arizona Corporation Commission U S WEST Communications – AKC-3 Exhibits of Ann Koehler-Christensen Page 1 of 1, January 8, 1999

Jdad • Chino Valley
Jewey • Humboldt • Mayer
Frescott Valley

\rea Code 520 \ril 1997/1998



New!

Find complete local and national listings

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MONEY-SAVING COUPONS

At the Back of the Book

East Valley

Mesa • Tempe • Chandler

Ahwatukee, Apache Junction, Chandler Heights, Gilbert, Guadalupe, Higley, Palm Springs, Queen Creek, Sun Lakes, Superstition September 1998/1999

Area Codes 520/602



# The White Pages



**Phone Service Pages** Information, tips & area codes



**Government Pages** City, county, state & federal agencies



**Business Listings** Following the residential listings



**Complete Listings** Listings for all local telephone companies including: U S WEST, Gila River Telecommunications, Inc., MCI, 1-800-RECONEX





Arizona Corporation Commission U S WEST Communications - AKC-4 Exhibits of Ann Koehler-Christensen Page 1 of 1, January 8, 1999

East Valley

Mesa • Tempe • Chandler

Ahwatukee, Apache Junction, Chandler Heights, Gilbert, Guadalupe, Higley, Palm Springs, Queen Creek, Sun Lakes, Superstition September 1998/1999

Area Codes 520/602



# The White Pages



Phone Service Pages Information, tips & area codes



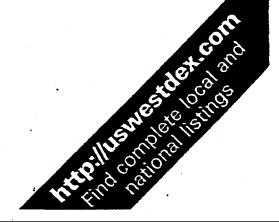
**Government Pages** City, county, state & federal agencies



**Business Listings** Following the residential listings



**Complete Listings** Listings for all local telephone companies including: U S WEST, Gila River Telecommunications, Inc., MCI, 1-800-RECONEX



#### BEFORE THE ARIZONA CORPORATION COMMISSION

IN THE MATTER OF THE APPLICATION OF	)	
U S WEST COMMUNICATIONS, INC., A	)	DOCKET NO. T-1051B-99-105
COLORADO CORPORATION, FOR A HEARING	)	AFFIDAVIT OF
TO DETERMINE THE EARNINGS OF THE	)	ANN KOEHLER-CHRISTENSEN
COMPANY, THE FAIR VALUE OF THE	)	
COMPANY FOR RATEMAKING PURPOSES, TO	) )	
FIX A JUST AND REASONABLE RATE OF	)	
RETURN THEREON AND REASONABLE RATE	)	
OF RETURN THEREON AND TO APPROVE RA	TE)	
SCHEDULES DESIGNED TO DEVELOP SUCH	)	
RETURN	)	
	)	
STATE OF WASHINGTON	)	
	)	
COUNTY OF KING	j	
	,	
	)	
	:	SS
	j	

Ann Koehler-Christensen, of lawful age being first duly sworn, deposes and states:

- 1. My name is Ann Koehler-Christensen. I am a Regulatory Manager in the Finance Department of U S WEST Communications in Seattle, Washington.
- 2. Attached hereto and made a part hereof for all purposes is my testimony.
- 3. I hereby swear and affirm that my answers contained in the attached testimony to the questions therein propounded are true and correct tot the best of my knowledge and belief.

Ann Koehler-Christensen

WORN to before me this 1<sup>st</sup> day of May, 2000.

Notary Public

Residing at Kent

My Commission Expires:

# BEFORE THE ARIZONA CORPORATION COMMISSION Corporation Commission DOCKETED

MAY 0 3 2000

IN THE MATTER OF THE APPLICATION
OF US WEST COMMUNICATIONS, INC., )
A COLORADO CORPORATION, FOR A
HEARING TO DETERMINE THE
EARNINGS OF THE COMPANY FOR
RATEMAKING PURPOSES, TO FIX A
JUST AND REASONABLE RATE OF
RETURN THEREON, AND TO APPROVE
RATE SCHEDULES DESIGNED TO
DEVELOP SUCH RETURN

DOCKETED BY

**DOCKET NO. T-01051B-99-105** 

DIRECT TESTIMONY OF

KERRY DENNIS WU

ON BEHALF OF

US WEST

MAY 3, 2000

# **TESTIMONY OF KERRY DENNIS WU**

# **INDEX OF TESTIMONY**

## I. TESTIMONY

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PURPOSE OF TESTIMONY2
TESTIMONY2
II. EXHIBITS
U S WEST Statements with January 6, 2000 and April 25, 2000 Ordered Parameters, Lives and Rates
Change in Depreciation Accruals Resulting from Changes in Depreciation Rates Using Investment 12/31/99 Balances – Intrastate Factors Applied KDW-2

Arizona Corporation Commission Docket No. T-01051B-99-0105 U S WEST Communications Direct Testimony of K. Dennis Wu May 3, 2000

### **EXECUTIVE SUMMARY**

My testimony introduces the rates and lives the Commission ordered to be used in the Company's rate case. The attached exhibit KDW-1 shows the depreciation lives and rates that have been incorporated into the Company's updated filing.

Based on 1/1/97 investment balances, current depreciation rates increase depreciation expense by \$79.2 million. Utilizing end-of-period 12/31/99 investment balances to conform with the new 1999 test period, the current depreciation rates result in a \$99.7 million increase.

Arizona Corporation Commission Docket No. T-01051B-99-0105 U S WEST Communications Direct Testimony of K. Dennis Wu Page 1, May 3, 2000

#### 1 **IDENTIFICATION OF WITNESS** 2 Q. 3 PLEASE STATE YOUR NAME, OCCUPATION, AND BUSINESS ADDRESS. 4 5 6 Α. My name is Kerry Dennis Wu. My title is Director - Capital Recovery for 7 U S WEST Communications, Inc. (U S WEST). My business address is 1600 7th Avenue, Room 3006, Seattle, Washington 98191. 8 9 10 Q. PLEASE GIVE A BRIEF OUTLINE OF YOUR EDUCATIONAL 11 BACKGROUND AND TELEPHONE COMPANY EXPERIENCE. 12 Α. I graduated from Portland State University in 1974, where I earned 13 14 Bachelor of Science degrees in Business Administration and Science. In 15 1995, I received a Masters of Business Administration from the University 16 of Washington. In addition, I am a Certified Internal Auditor, a Certified 17 Management Accountant and a Certified Public Accountant. 18 19 I began working for Pacific Northwest Bell (PNB) in 1974 as an internal 20 auditor specializing in accounting and financial issues. I later managed 21 Corporate Books and was responsible for closing the Company's books 22 and preparation of Securities and Exchange Commission Filings. I 23 subsequently managed Corporate Budget preparation. In the regulatory 24 area, I supported U S WEST's rate of return advocacy by preparing 25 testimony and related materials. In 1996, I worked for a London based mobile phone company, where I was responsible for mechanizing annual 26 27 regulatory filings and developing tariffs. Upon returning to the States, I

accepted a position with AirTouch Cellular as a budget analyst. In mid-

1998, I was appointed the Director – Capital Recovery at U S WEST.

28

29

Arizona Corporation Commission Docket No. T-01051B-99-0105 U S WEST Communications Direct Testimony of K. Dennis Wu Page 2, May 3, 2000

2		PURPOSE OF TESTIMONY
3		
4	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY?
5		
6	A.	The purpose of my testimony is to show the depreciation lives and rates
7		resulting from the Commission most recent depreciation decisions.
8		Current depreciation rates have been incorporated into the Company's
9		updated rate case filing.
10		
11		TESTIMONY
12		
13	Q.	WHAT DEPRECIATION RATES DID THE COMMISSION ORDER TO
14	Q.	USED IN THE RATE CASE?
15		GOED IN THE HATE GAGE.
16	Α.	The lives and rates are shown on the attached exhibit KDW-1.
17	,	The lives and rates are shown on the attached exhibit NEW 1.
18	Q.	WHAT IS THE EFFECT OF CURRENT DEPRECIATION RATES ON
19		ARIZONA'S ANNUAL INTRASTATE DEPRECIATION ACCRUAL.
20		
21	Α.	Based on 1/1/97 investment balances, the current rates increase
22		depreciation rates by \$79.2 million. Utilizing end-of-period 12/31/99
23		investment balances to conform with the new December 1999 test period
24		current rates result in a \$99.7 million increase. The application of the
25		ordered depreciation rates to the 12/31/99 Arizona intrastate investment
26		balances is shown on Exhibit KDW-2.
27		

1

Arizona Corporation Commission Docket No. T-01051B-99-0105 U S WEST Communications Direct Testimony of K. Dennis Wu Page 3, May 3, 2000

1	Q.	WHY DOES THE DEPRECIATION EXPENSE EFFECT OF RECENTLY
2		ORDERED DEPRECIATION RATES CHANGE FROM \$79.2 MILLION
3		TO \$99.7 MILLION?
4		
5	Α.	The \$79.2 million amount was based on investment levels as of 1/1/97,
6		the date of the filed study. Since that time, US WEST has made
7		substantial investments in Arizona. The updated test year calculation
8		utilizes investment levels as of 12/31/99. The change from \$79.2 million
9		to \$99.7 million represents the effect of three years of continuing
0		investment in Arizona.
1		
2	Q.	DOES THIS CONCLUDE YOUR TESTIMONY?
3		
14	A.	Yes.

# **BEFORE THE ARIZONA CORPORATION COMMISSION**

IN THE MATTER OF THE APPLICATION ) OF U S WEST COMMUNICATIONS, INC., )	
A COLORADO CORPORATION, FOR A )	
HEARING TO DETERMINE THE ) EARNINGS OF THE COMPANY FOR )	DOCKET NO. T-01051B-99-105
RATEMAKING PURPOSES, TO FIX A	
JUST AND REASONABLE RATE OF ) RETURN THEREON AND TO APPROVE )	
RATE SCHEDULES DESIGNED TO )	
DEVELOP SUCH RETURN	

EXHIBITS OF

KERRY DENNIS WU

ON BEHALF OF

U S WEST

MAY 3, 2000

ARIZONA CORPORATION COMMISSION Docket No. T-01051B-99-105 Direct Testimony of K. Dennis Wu May 2, 2000 Exhibit KDW 1, Page 1 of 6

# SUMMARY OF DEPRECIATION RATES ALL VINTAGE RECOVERY

### DEPRECIATION RATES IN EFFECT 12/31/1996

RATES EFFECTIVE IN 1997

		REM		FUTURE N	ET	REM	F	UTURE NET	
ACCOUNT	CLASS OR SUBCLASS	LIFE	RESERVE	SALVAGE	RATE	LIFE	RESERVE	SALVAGE	RATE
NUMBER	OF PLANT	YEARS	%	%	%	YEARS	%	%	%
		Α	В	С	D	E	F	G	Н
2112	MOTOR VEHICLES	3.9	41.0	18.0	10.5	3.6	66.4	16.0	4.9
2114	SPEC PURPOSE VEHICLE	8.4	24.0	23.0	5.9	9.8	0.0	0.0	10.2
2115	GARAGE WORK EQUIP	9.0	16.9	23.0	6.7	10.2	-55.1	-4.0	15.6
2116	OTHER WORK EQUIP	8.4	27.7	23.0	5.9	5.4	7.2	7.0	15.9
2121	BUILDINGS	28.0	15.4	-10.0	3.4	26.0	29.2	-6.0	3.0
2122	FURNITURE	10.1	20.4	3.0	7.6	5.5	-10.8	0.0	20.1
2123.1	OFFICE EQUIPMENT	7.1	28.8	5.0	9.3	3.3	26.3	0.0	22.3
2123.2	COMPANY COMM EQUIP	3.3	62.1	1.0	11.2	5.3	67.7	0.0	6.1
2124	GEN PURPOSE CMPTR	3.0	42.9	5.0	17.4	2.4	72.4	5.0	9.4
2211	ANALOG SW EQUIP	8.4	34.7	2.0	7.5	3.4	44.8	0.0	16.2
2212	DIGITAL SW EQUIP	10.4	16.3	3.0	7.8	5.4	37.5	3.0	11.0
2220	OPERATOR SYSTEMS	1.4	4.1	3.0	66.4	4.1	96.6	-3.0	1.6
2231	RADIO SYSTEMS	8.1	34.5	-8.0	9.1	6.6	64.0	-2.0	5.8
2232	CIRCUIT EQUIP								
	CIRCUIT DDS	4.0	50.5	-4.0	13.4	4.0	75.4	3.0	5.4
	CIRCUIT DIGITAL	7.9	27.8	3.0	8.8	5.1	47.8	2.0	9.8
	CIRCUIT ANALOG	5.0	39.1	3.0	11.6	3.3	89.3	0.0	3.2
2351	PUB TEL TERM EQUIP	2.7	94.6	1.0	1.6	3.6	77.8	30.0	0.0
2362	OTHER TERM EQUIP	4.7	45.9	3.0	10.9	6.4	49.9	2.0	7.5
2411	POLE LINES	15.6	55.9	-49.0	6.0	26.0	71.6	-138.0	6.4
2421	AERIAL CABLE MET	9.3	27.3	-23.0	10.3	5.2	61.5	-27.0	12.6
2421	AERIAL CABLE NON MET	15.5	4.0	-27.0	7.9	13.1	12.5	-27.0	8.7
2422	UNDGRD CABLE MET	13.8	24.9	-9.0	6.1	5.8	50.8	-6.0	9.5
2422	UNDGRD CABLE NON MET	18.7	7.8	-21.0	6.1	7.7	26.5	~6.0	10.3
2423	BURIED CABLE MET	14.8	25.7	-2.0	5.2	5.6	40.0	-7.0	12.0
2423	BURIED CABLE NON MET	20.0	10.0	-9.0	5.0	12.9	24.8	-7.0	6.4
2424	SUB CABLE MET	22.0	-80.9	0.0	8.2	1.4	-20.6	0.0	86.1
2424	SUB CABLE NON MET	13.9	36.8	0.0	14.0	0.0	0.0	0.0	0.0
2426	INTRA BLDG CA MET	14-1	53.1		4.2	8.3	70.7	0.0	3.5
2426	INTRA BLDG NON MET	12.5	-14.0	-33.0	11.8	6.1	20.2	0.0	13.1
2431	AERIAL WIRE	12.0	12.2	-32.0	10.0	5.5	16.8	-30.0	20.6
2441	CONDUIT SYSTEMS	47.0	16.2	-11.0	2.0	44.0	21.1	-20.0	2.2

ARIZONA CORPORATION COMMISSION Docket No. T-01051B-99-105 Direct Testimony of K. Dennis Wu May 2, 2000 Exhibit KDW 1, Page 2 of 6

# CHANGE IN ANNUAL DEPRECIATION ACCRUALS RESULTING FROM CHANGES IN DEPRECIATION RATES (\$000)

RATES EFFECTIVE 12/31/1996

RATES EFFECTIVE IN 1997

ACCOUNT NUMBER	CLASS OR SUBCLASS OF PLANT	INVESTMENT 1/1/97	RATE AMOUNT	AMORT AMOUNT	TOTAL	RATE AMOUNT	AMORT AMOUNT	TOTAL	CHANGE IN
		t	J=D*1	K	L=J+K	M=H*I	N	O=M+N	P=0-L
2112	MOTOR VEHICLES	53,010	5,566	0	5,566	2,597	0	2,597	-2,969
2114	SPEC PURPOSE VEHICLE	26	2	0	2	3	0	3	-
2115	GARAGE WORK EQUIP	1,308	88	0	88	204	0	204	116
2116	OTHER WORK EQUIP	23,811	1,405	0	1,405	3,786	0	3,786	2,381
2121	BUILDINGS	153,169	5,208	0	5,208	4,595	0	4,595	-613
2122	FURNITURE	1,792	136	0	136	360	0	360	224
2123.1	OFFICE EQUIPMENT	6,039	562	0	562	1,347	0	1,347	785
2123.2	COMPANY COMM EQUIP	18,348	2,055	0	2,055	1,119	0	1,119	-936
2124	GEN PURPOSE CMPTR	164,621	28,644	0	28,644	15,474	0	15,474	-13,170
2211	ANALOG SW EQUIP	235,804	17,685	0	17,685	38,200	0	38,200	20,515
2212	DIGITAL SW EQUIP	607,055	47,350	0	47,350	66,776	0	66,776	19,426
2220	OPERATOR SYSTEMS	9,204	6,111	G	6,111	147	0	147	-5,964
2231	RADIO SYSTEMS	39,446	3,590	0	3,590	2,288	0	2,288	-1,302
2232	CIRCUIT EQUIP								·
	CIRCUIT DDS	12,049	1,615	0	1,615	651	0	651	-964
	CIRCUIT DIGITAL	878,564	77,314	0	77,314	86,099	0	86,099	8,785
	CIRCUIT ANALOG	67,630	7,845	0	7,845	2,164	0	2,164	-5,681
2351	PUB TEL TERM EQUIP	15,068	241	0	241	0	0	0	-241
2362	OTHER TERM EQUIP	39,215	4,274	0	4,274	2,941	0	2,941	-1,333
2411	POLE LINES	42,411	2,545	0	2,545	2,714	0	2,714	169
2421	AERIAL CABLE MET	142,374	14,665	0	14,665	17,939	0	17,939	3,274
2421	AERIAL CABLE NON MET	5,616	444	0	444	489	0	489	45
2422	UNDGRD CABLE MET	315,966	19,274	0	19,274	30,017	0	30,017	10,743
2422	UNDGRD CABLE NON MET	74,447	4,541	0	4,541	7,668	0	7,668	3,127
2423	BURIED CABLE MET	1,010,069	52,524	0	52,524	121,208	0	121,208	68,684
2423	BURIED CABLE NON MET	16,552	828	0	828	1,059	0	1,059	231
2424	SUB CABLE MET	3	0	0	0	3	0	3	3
2424	SUB CABLE NON MET	0	. 0	0	0	0	0	0	0
2426	INTRA BLDG CA MET	38,068	1,599	0	1,599	1,332	0	1,332	-267
2426	INTRA BLDG NON MET	327	39	0	39	43	0	•	
2431	AERIAL WIRE	6,438	644	0	644	1,326	0	1,326	682
2441	CONDUIT SYSTEMS	271,676	5,434	0	5,434	5,977	0	•	
	TOTALS	4,250,106	312,228	0	312,228	418,526	0	418,526	
	COMPOSITES	-	•		7.3	•		9.8	•

ARIZONA CORPORATION COMMISSION Docket No. T-01051B-99-105 Direct Testimony of K. Dennis Wu May 2, 2000 Exhibit KDW 1, Page 3 of 6

### SUMMARY OF RESERVES 1-1-1997

		1-1 <i>-9</i> 7	BOOK RESE	RVE	AVERAGE SERVICE	AVERAGE REM	AVERAGE NET	: ; FUTURE NET	THEORETIC RESERVE	AL :
ACCOUNT	CATEGORY	INVESTMENT	AMOUNT	PERCENT		LIFE		SALVAGE	AMOUNT	PERCENT
		A\$	В\$	C=B/A	D	E	F	G	Н\$	Ī
2112	MOTOR VEHICLES	53,009,820	35,179,798	66.4	9.2	3.6	15	16	26,875,979	50.7
2114	SPEC PURPOSE VEHICLE	25,794	0	0.0	14.2	9.8	0	0	7,996	31.0
2115	GARAGE WORK EQUIP	1,308,374	-720,784	-55.1	12.3	10.2	-24	-4	15,700	1.2
2116	OTHER WORK EQUIP	23,811,229	1,722,644	7.2	10.3	5.4	9	7	10,786,487	45.3
2121	BUILDINGS	153,169,412	44,748,255	29.2	37.0	26.0	2	-6	56,825,852	37.1
2122	FURNITURE	1,791,709	-193,966	-10.8	9.4	5.5	3	0	774,018	43.2
2123.1	OFFICE EQUIPMENT	6,038,976	1,588,990	26.3	8.5	3.3	0	0	3,695,853	61.2
2123.2	COMPANY COMM EQUIP	18,347,890	12,430,681	67.7	8.5	5.3	0	0	6,898,807	37.6
2124	GEN PURPOSE CMPTR	164,621,049	119,184,148	72.4	6.2	2.4	6	5	96,467,935	58.6
2211	ANALOG SW EQUIP	235,804,048	105,603,265	44.8	9.8	3.4	. 6	0	158,931,928	67.4
2212	DIGITAL SW EQUIP	607,055,415	227,681,277	37.5	9.3	5.4	3	3	247,071,554	40.7
2220	OPERATOR SYSTEMS	9,204,282	8,887,798	96.6	11.0	4.1	-3	-3	5,945,966	64.6
2231	RADIO SYSTEMS	39,445,929	25,263,128	64.0	14.9	6.6	-1	-2	22,602,517	
2232	CIRCUIT EQUIP									
	CIRCUIT DDS	12,048,810	9,084,651	75.4	8.1	4.0	8	3	6,217,186	51.6
	CIRCUIT DIGITAL	878,564,418	419,570,151	47.8	9.5	5.1	2	2	398,868,246	45.4
	CIRCUIT ANALOG	67,630,476	60,421,492	89.3	12.1	3.3	-1	0	49,032,095	72.5
2351	PUB TEL TERM EQUIP	15,068,490	11,722,281	77.8	7.2	3.6	30	30	5,273,972	
2362	OTHER TERM EQUIP	39,214,535	19,553,010	49.9	9.0	6.4	8	2.	12,783,938	32.6
2411	POLE LINES	42,410,540	30,357,356	71.6	34.0	26.0	-86	-138	40,629,297	95.8
2421	AERIAL CABLE MET	142,374,081	87,505,429	61.5	13.7	5.2	-21	-27	115,465,380	81.1
2421	AERIAL CABLE NON MET	5,616,138	704,138	12.5	15.0	13.1	-27	-27	904,198	16.1
2422	UNDGRD CABLE MET	315,966,087	160,576,546	50.8	18.1	5.8	-6	-6	227,495,583	
2422	UNDGRD CABLE NON MET	74,447,014	19,746,787	26.5	13.0	7.7	-6	-6	32,161,110	43.2
2423	BURIED CABLE MET	1,010,068,793	404,260,231	40.0	13.6	5.6	-7	-7	635,333,271	62.9
2423	BURIED CABLE NON MET	16,551,957	4,108,316	24.8	18.0	12.9	-7	-7	5,015,243	30.3
2424	SUB CABLE MET	2,572	-529	-20.6	15.0	1.4	0	. 0	2,333	90.7
2424	SUB CABLE NON MET	0	0	0.0	0.0	0.0	0	0	0	0.0
2426	INTRA BLDG CA MET	38,068,059	26,932,096	70.7	19.9	8.3	2	. 0	22,498,223	59.1
2426	INTRA BLDG NON MET	326,996	66,176	20.2	9.2	6.1	0	0	110,198	33.7
2431	AERIAL WIRE	6,437,962	1,083,329		9.5	5.5	-25	-30	3,708,266	
2441	CONDUIT SYSTEMS	271,676,174	57,401,705	21.1	57.0			-20	74,439,272	
	TOTAL	4,250,107,029	1,894,468,399	44.6					2,266,838,403	53.3

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# CHANGE IN ANNUAL DEPRECIATION ACCRUALS RESULTING FROM CHANGES IN DEPRECIATION RATES INTRA STATE FACTORS APPLIED (\$000)

RATES EFFECTIVE 12/31/1996

RATES EFFECTIVE IN 1997

ACCOUNT NUMBER	CLASS OR SUBCLASS OF PLANT	INVESTMENT 1/1/97	RATE AMOUNT	AMORT AMOUNT	TOTAL	RATE AMOUNT	AMORT AMOUNT	TOTAL	CHANGE IN
	****************	·	J=D*I	К	L=J+K	M=H*I	N .	O=M+N	P=O-L
2112	MOTOR VEHICLES	41,205	4,326	0	4,326	2,019	0	2,019	-2,308
2114	SPEC PURPOSE VEHICLE	20	2	0	2	2	0	2	1
2115	GARAGE WORK EQUIP	1,017	68	0	68	15 <del>9</del>	0	159	90
2116	OTHER WORK EQUIP	18,508	1,092	0	1,092	2,943	0	2,943	1,851
2121	BUILDINGS	119,059	4,048	0	4,048	3,572	0	3,572	-476
2122	FURNITURE	1,393	106	0	106	280	0	280	174
2123.1	OFFICE EQUIPMENT	4,694	437	0	437	1,047	0	1,047	610
2123.2	COMPANY COMM EQUIP	14,262	1,597	0	. 1,597	870	0	870	-728
2124	GEN PURPOSE CMPTR	127,960	22,265	0	22,265	12,028	0	12,028	-10,237
2211	ANALOG SW EQUIP	188,502	14,137	0	14,137	30,537	- 0	30,537	16,400
2212	DIGITAL SW EQUIP	485,280	37,852	. 0	37,852	53,381	0	53,381	15,529
2220	OPERATOR SYSTEMS	8,487	5,635	0	5,635	136	. 0	136	-5,499
2231	RADIO SYSTEMS	27,119	2,468	0	2,468	1,573	0	1,573	-895
2232	CIRCUIT EQUIP								
	CIRCUIT DDS	8,284	1,110	0	1,110	448	0	448	-663
	CIRCUIT DIGITAL	604,013	53,153	0	53,153	59,193	0	59,193	6,040
	CIRCUIT ANALOG	46,496	5,393	0	5,393	1,488	0	1,488	-3,906
2351	PUB TEL TERM EQUIP	11,301	181	0	181	0	0	0	-181
2362	OTHER TERM EQUIP	29,411	3,206	0	3,206	2,206	0	2,206	-1,000
2411	POLE LINES	31,329	1,880	. 0	1,880	2,005	0	2,005	125
2421	AERIAL CABLE MET	105,172	10,833	0	10,833	13,252	. 0	13,252	2,419
2421	AERIAL CABLE NON MET	4,149	328	0	328	- 361	. 0	361	33
2422	UNDGRD CABLE MET	233,404	14,238	0	14,238	22,174	0	22,174	7,936
2422	UNDGRD CABLE NON MET	54,994	3,354	0	3,354	5,664	0	5,664	2,310
2423	BURIED CABLE MET	746,138	38,799	0	38,799	89,536	0	89,536	50,737
2423	BURIED CABLE NON MET	12,227	612	0	612	782	0	782	171
2424	SUB CABLE MET	2	0	0	0	2	0	2	2
2424	SUB CABLE NON MET	0	0	0	0	0	0	0	٥
2426	INTRA BLDG CA MET	28,121	1,181	0	1,181	984	0	984	-197
2426	INTRA BLDG NON MET	242	29	0	29	32	. 0	32	3
2431	AERIAL WIRE	4,756	476	0	476	980	0	980	504
2441	CONDUIT SYSTEMS	200,687	4,014	0	4,014	4,415	.0	4,415	
	TOTALS	3,158,229	232,821	. 0	232,821	312,066	0	•	
	COMPOSITES	· -	-		7.4	•		9.9	,

ARIZONA CORPORATION COMMISSION Docket No. T-01051B-99-105 Direct Testimony of K. Dennis Wu May 2, 2000 Exhibit KDW 1, Page 5 of 6

### SUMMARY OF RESERVES (INTRA STATE FACTORS APPLIED) 1-1-1997

			BOOK RESE	RVE		E AVERAGE			THEORETIC RESERVE	
ACCOUNT	CATEGORY	1-1-97 Investment	AMOUNT	PERCENT	SERVICE LIFE	REM LIFE	NET SALVAGE	NET SALVAGE	AMOUNT	PERCENT
		A\$	8\$	C=B/A	D	E	F	G	Н\$	1
2112	MOTOR VEHICLES	41,204,533	27,345,257	66.4	9.2	3.6	15	16	20,890,698	50.7
2114	SPEC PURPOSE VEHICLE	20,050	0	0.0	14.2	9.8	0	0	6,215	31.0
2115	GARAGE WORK EQUIP	1,016,999	-560,265	-55.1	12.3	10.2	-24	-4	12,204	1.2
2116	OTHER WORK EQUIP	18,508,468	1,339,011	7.2	10.3	5.4	9	7	8,384,336	45.3
2121	BUILDINGS	119,058,584	34,782,819	29.2	37.0	26.0	2	-6	44,170,735	37.1
2122	FURNITURE	1,392,695	-150,770	-10.8	9.4	5.5	3	0	601,644	43.2
2123.1	OFFICE EQUIPMENT	4,694,096	1,235,122	26.3	8.5	3.3	. 0	0	2,872,787	
2123.2	COMPANY COMM EQUIP	14,261,815	9,662,368		8.5	5.3	0	-0	5,362,442	
2124	GEN PURPOSE CMPTR	127,959,941	92,641,838		6.2	2.4	6	5	74,984,526	
2211	ANALOG SW EQUIP	188,501,756	84,419,250		9.8	3.4	6	0	127,050,184	
2212	DIGITAL SW EQUIP	485,280,099	182,008,413				3	3	197,509,000	
2220	OPERATOR SYSTEMS	8,487,268	8,195,439					_	5,482,775	
2231	RADIO SYSTEMS	27,119,076	17,368,401						15,539,231	
2232	CIRCUIT EQUIP		,,				,	_	,,	
	CIRCUIT DDS	8,283,557	6,245,698	75.4	8.1	4.0	8	3	4,274,315	51.6
	CIRCUIT DIGITAL	604,013,037	288,454,479						274,221,919	
	CIRCUIT ANALOG	46,495,952	41,539,776						33,709,565	
2351	PUB TEL TERM EQUIP	11,301,368	8,791,711						3,955,479	
2362	OTHER TERM EQUIP	29,410,901	14,664,758						9,587,954	
2411	POLE LINES	31,328,666	22,424,979					_	30,012,862	
2421	AERIAL CABLE MET	105,171,734	64,640,260						85,294,276	
2421	AERIAL CABLE NON MET	4,148,641	520,147						667,931	
2422	UNDGRD CABLE MET	233,404,148	118,617,895					-	168,050,987	
2422	UNDGRD CABLE NON MET	54,994,009	14,586,952						23,757,412	
2423	BURIED CABLE MET	746,137,817						-	469,320,687	
2423	BURIED CABLE NON MET	12,226,931	3,034,813					•	3,704,760	
2424	SUB CABLE MET	1,900	-391				-	•	1,723	
2424	SUB CABLE NON MET	0,700	371				-		0	
2426	INTRA BLDG CA MET	28,120,875	19,894,739				_	_	16,619,437	
2426	INTRA BLDG CA MET	241,552	48,884				_	-		
2420		4,755,723						_	81,403	
	AERIAL WIRE		800,255						2,739,296	
2441	CONDUIT SYSTEMS	200,687,190	42,402,639	21.1	57.0	44.0	-20	-20	54,988,290	27.4
	TOTAL	3,158,229,382	1,403,581,508	44.4					1,683,855,075	53.3

ARIZONA CORPORATION COMMISSION Docket No. T-01051B-99-105 Direct Testimony of K. Dennis Wu May 2, 2000 Exhibit KDW 1, Page 6 of 6

COMMENTS

#### PARAMETER REPORT

		P.L. OR							PARAMETERS
CATEGORY	YEAR	AYFR	SALV.	SALV.		С		G	
2112 MOTOR VEHICLES 2112 PASSENGER CARS	4		15	16			. ~ ^		
2112 PASSENGER CARS	1983	8.6	15.4	16.0	IOWA	CURVE	L3.0		
2112 LIGHT TRUCKS	1983	8.6	15.4	16.0	IOWA	CURVE	L3.0		
2112 HEAVY TRUCKS	1983	8.6	15.4	16.0	IOWA	CURVE	L3.0		
2114 SPEC PURPOSE VEHICLES	U	16.1	0	0	IOWA	CURVE	56.0		
2115 GARAGE WORK EQUIP	0	13.7	-24	-4	IOWA	CURVE	LU.U		
2116 OTHER WORK EQUIP	U	11.5	9	(	IOWA	CURVE	L4.U		
2121 BUILDINGS 2121 LARGE BUILDINGS									
2121 OTHER BUILDINGS	1983	43.0	2.0	-6.0	IOWA	CURVE	R1.0		
2122 FURNITURE	1983	7.5	3	U	I UWA	CURVE	04.0		
2123.1 OFFICE EQUIPMENT	1983	9.5 7.0	0	0	IUWA	CURVE	LU.5		
2123.2 COMPANY COMM EQUIP		0.7	0.4	0.0	7.01.14	CUDVE	. O E		
2123.2 STAND ALONE 2123.2 PBX & KEY INTRASYSTEMS	0	0.3	-0.1	0.0	TOWA	CUKVE	10.5		
2123.2 PBX & RET INTRASTSTEMS	1007	5.0	-0.1	0.0	LOWA	CURVE	01.0		
2124 GEN PURPOSE CMPTR	1903	2000	0	9	LOWA	CURVE	U1.U	NT DAT	- 4 5
2211 ANALOG SW EQUIP 2212 DIGITAL SW EQUIP	1007	2000.0 10.0 10.7	7	7	CONS	CHOVE	O1 D	EN) KAI	= 1.3
2212 DIGITAL SW EWUIP	1003	10.0	. 7	. 7 - 7	TOWA	CURVE	62.0		
2220 OPERATOR SYSTEMS	1983	10.7	-3	3	TOWA	CURVE	52.U		
2231 RADIO SYSTEMS 2232 CIRCUIT DDS	1003	13.1	- 1	-2	TOUA	CURVE	31.3		
2232 CIRCUIT DIGITAL	1007	8.1 10.0 8.0	9	د د	TOUA	CURVE	03.0		
2232 CIRCUIT ANALOG	1093	9.0	-1	0	TOWA	CURVE	100		
2351 PUB TEL TERM EQUIP	1703	7.0	30	30	TOUA	CURVE	26.0		
2362 OTHER TERM EQUIP	0	7.9 6.8 46.4	30	30	TOWA	CHOVE	03.0		
2411 POLE LINES	1082	46.6	-86	_13R	TOWA	CURVE	03.0		
2421 AERIAL CABLE MET	1982	12.0	-21	-27	TOWA	CURVE	D1.0		
	1082	14.5	-27	-27	TOWA	CHRVE	90		
2421 AERIAL CABLE NON MET 2422 UNDGRD CABLE MET	1082	14.5 15.0	-6	-6	TOWA	CLIDAE	D1 5		
2422 UNDGRD CABLE NON MET	1082	13.0	-6	-6	TOWA	CURVE	80		
2423 BURIED CABLE MET	1082	12.1	-7	-7	TOWA	CHEVE	115		
2423 BURIED CABLE NON MET	1082	12.0 17.6 15.0 9.0	- r - 7	-7 -7	TOUA	CURVE	EU -		
2424 SUB CABLE MET	1082	15.0	-7	-,	TOUA	CURVE	24		
2424 SUB CABLE NON MET	1082	0.0		0	TOWA	CHOVE	50 50		
2424 INTRA RING CA MET	1082	10 0	9	0	TOWA	CIPVE	120		
2426 INTRA BLDG CA MET 2426 INTRA BLDG CABLE NON MET 2431 AERIAL WIRE	1082	11 5	0	n	LUNV	CUPVE	01 0		
2431 AFRIAL WIRE	, , , o <u>c</u>	8.0	-25	ט הצ-	TOWA	CHEVE	10.0		
2441 CONDUIT SYSTEMS	1082	56.A	-20	-20	IUMV	CURVE	80		
ETTI COMPOSTI GIGIERIO	1702	,0.0	20	20	. OMA	CORVE	J.		

**ARIZONA CORPORATION COMMISSION** Docket No. T-01051B-99-105 Direct Testimony of K. Dennis Wu May 3, 2000 Exhibit KDW-2, Page 1 of 1

## Change in Annual Depreciation Accruals Resulting from Changes in Depreciation Rates **Intrastate Factors Applied (\$000)**

	*					
	Intrastate	Previous		Current		Change in
	Investment	Depreciation	Rate	Depreciation	Rate	Depreciation
Account Number and	12/31/1999	Rate@	Amount	Rate*	Amount	Accrual
Class or Subclass of Plant	ΑΑ	В	C = A * B	D	E = A * D	E-C
					***************************************	
2112 MOTOR VEHICLES	47,502	10.5%	4,988	4.9%	2,328	(2,660)
2114 SPEC PURPOSE VEHICLES	18	5.9%	1	10.2%	2	1
2115 GARAGE WORK EQUIP	961	6.7%	64	15.6%	150	86
2116 OTHER WORK EQUIP	15,891	5.9%	938	15.9%	2,527	1,589
2121 BUILDINGS	115,383	3.4%	3,923	3.0%	3,461	(462)
2122 FURNITURE	1,208	7.6%	92	20.1%	243	151
2123.1 OFFICE EQUIPMENT	3,883	9.3%	361	22.3%	866	505
2123.2 COMPANY COMM EQUIPMENT	1,040	11.2%	116	6.1%	63	(53)
2124 GEN PURPOSE CMPTR	79,409	17.4%	13,817	9.4%	7,464	(6,353)
2211 ANALOG SW EQUIP	110,824	7.5%	8,312	16.2%	17,953	9,641
2212 DIGITAL SW EQUIP	655,053	7.8%	51,094	11.0%	72,056	20,962
2220 OPERATOR SYSTEMS	6,498	66.4%	4,315	1.6%	104	(4,211)
2231 RADIO SYSTEMS	23,571	9.1%	2,145	5.8%	1,367	(778)
2232 CIRCUIT DDS	5,667	13.4%	759	5.4%	306	(453)
2232 CIRCUIT DIGITAL	752,751	8.8%	66,242	9.8%	73,770	7,528
2232 CIRCUIT ANALOG	32,631	11.6%	3,785	3.2%	1,044	(2,741)
2362 OTHER TERM EQUIP	40,092	10.9%	4,370	7.5%	3,007	(1,363)
2351 PUB TEL TERM EQUIP	17,969	1.6%	288	0.0%	-	(288)
2411 POLE LINES	34,403	6.0%	2,064	6.4%	2,202	138
2421 AERIAL CABLE MET	121,417	10.3%	12,506	12.6%	15,299	2,793
2421 AERIAL CABLE NON MET	4,563	7.9%	360	8.7%	397	37
2422 UNDGRD CABLE MET	257,054	6.1%	15,680	9.5%	24,420	8,740
2422 UNDGRD CABLE NON MET	64,194	6.1%	3,916	10.3%	6,612	2,696
2423 BURIED CABLE MET	927,241	5.2%	48,217	12.0%	111,269	63,052
2423 BURIED CABLE NON MET	12,727	5.0%	636	6.4%	815	179
2424 SUB CABLE MET	2	8.2%	-	86.1%	2	2
2424 SUB CABLE NON MET	-	14.0%	-	0.0%	-	-
2426 INTRA BLDG CABLE MET	30,275	4.2%	1,272	3.5%	1,060	(212)
2426 INTRA BLDG CABLE NON MET	429	11.8%	51	13.1%	56	5
2431 AERIAL WIRE	6,494	10.0%	649	20.6%	1.338	689
2441 CONDUIT SYSTEMS	225,140	2.0%	4,503	2.2%	4,953	450
Total	3,594,290		255,464		355,134	99,670
Composites			7.1%		9.9%	55,576
			/0		0.070	

<sup>@</sup> Exhibit KDW-1, Page 1 of 6, Column D Exhibit KDW-1, Page 1 of 6, Column H

# BEFORE THE ARIZONA CORPORATION COMMISSION

U S W COLO HEAR OF TH THE C PURP REAS THER SCHE	E MATTER OF THE APPLICATION OF ) VEST COMMUNICATIONS, INC., A PRADO CORPORATION, FOR A RING TO DETERMINE THE EARNINGS ) HE COMPANY, THE FAIR VALUE OF ) COMPANY FOR RATEMAKING POSES, TO FIX A JUST AND ( CONABLE RATE OF RETURN ( ECON, AND TO APPROVE RATE ( EDULES DESIGNED TO DEVELOP ( I RETURN. ()	DOCKET NO. T-1051B-99-105			
STAT	E OF WASHINGTON )	N 47 OF KERRY RENNIO 1441			
: ss AFFIDAVIT OF KERRY DENNIS WU COUNTY OF KING )					
	Kerry Dennis Wu, of lawful age being first	t duly sworn, depose and states:			
1.	My name is Kerry Dennis Wu. I am Director – Capital Recovery of U S WEST Communications in Seattle, Washington.				
2.	Attached hereto and made a part hereof for all purposes is my testimony consisting of pages 1 through 3, and my exhibits numbered KDW-1 and KDW-2.				
3.	I hereby swear and affirm that my answer testimony to the questions therein proportions of my knowledge and belief.				
		day of which are siding at a washington.			
My Co	ommission Eynires: califica				